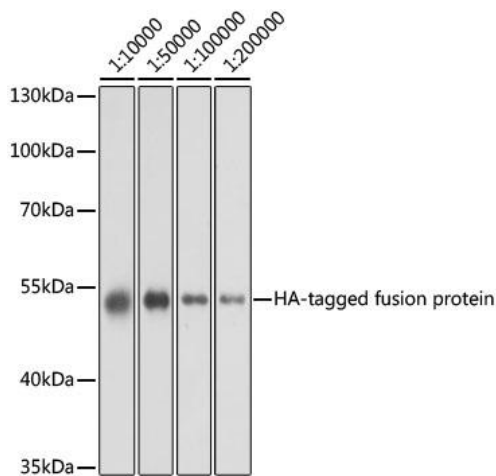
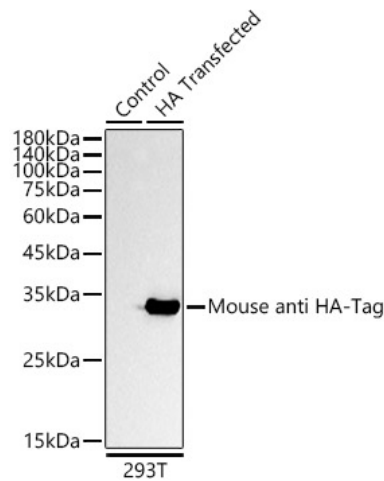


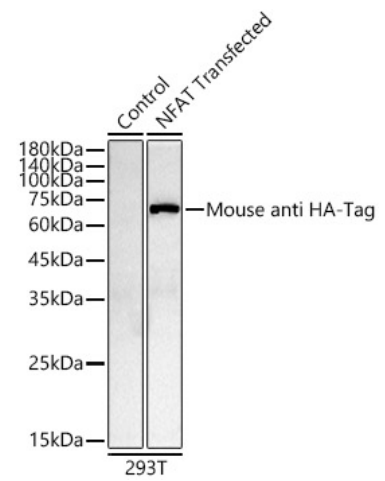
|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product name:</b>  | HA Tag Mouse Monoclonal Antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Cat number:</b>    | MAB-91878                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Conjugate:</b>     | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Size:</b>          | 100 ug                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Clone:</b>         | 2D10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Concentration:</b> | 1mg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Host:</b>          | Ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Isotype:</b>       | IgG1,Kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Immunogen:</b>     | A synthetic peptide corresponding to HA tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Reactivity:</b>    | All Species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Applications:</b>  | Western Blot: 1:2000 - 1:10000 Immunofluorescence:1:50 - 1:200<br>Immunocytochemistry: 1:50 - 1:200 Immunoprecipitation: 0.5µg-4µg antibody<br>for 200µg-400µg extracts of whole cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purification:</b>  | Affinity purification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Form:</b>          | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Buffer:</b>        | PBS with 0.01% thimerosal,50% glycerol,pH7.3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage:</b>       | Store at -20°C for 1 year. Avoid repeated freeze and thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Background:</b>    | Protein tags are peptide sequences genetically grafted onto a recombinant protein. Often these tags are removable by chemical agents or by enzymatic means, such as proteolysis or intein splicing. Tags are attached to proteins for various purposes.Epitope tags are short peptide sequences which are chosen because high-affinity antibodies can be reliably produced in many different species. These are usually derived from viral genes, which explain their high immunoreactivity. Epitope tags include V5-tag, Myc-tag, HA-tag and NE-tag. These tags are particularly useful for western blotting, immunofluorescence and immunoprecipitation experiments, although they also find use in antibody purification. |



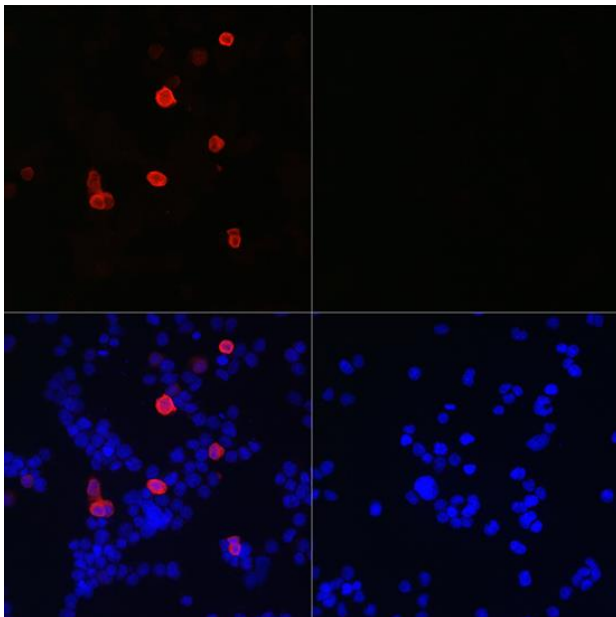
Western blot analysis of over-expressed HA-tagged protein in 293T cell using HA-tag antibody at different dilution. Each lane was loaded with 2  $\mu$ g cell lysate. Secondary antibody: HRP Goat Anti-Mouse IgG (H+L) at 1:10000 dilution. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL West Pico Plus. Exposure time: 1s.



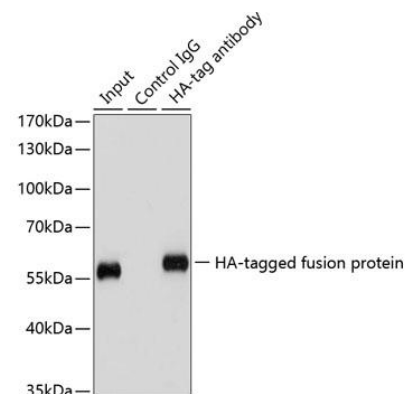
Western blot analysis of lysates from 293T cells, using Mouse anti HA-Tag mAb at 1:5000 dilution. Secondary antibody: HRP Goat Anti-Mouse IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25 $\mu$ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL West Pico Plus. Exposure time: 10s.



Western blot analysis of lysates from 293T cells, using Mouse anti HA-Tag mAb at 1:10000 dilution. Secondary antibody: HRP Goat Anti-Mouse IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25 $\mu$ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL West Pico Plus. Exposure time: 180s.



Immunofluorescence analysis of 293T cells transfected with HA-Tag fusion protein and untreated 293T cells use Mouse anti HATag mAb at dilution of 1:50 (40xlens). Blue: DAPI for nuclear staining.



Immunoprecipitation of over-expressed HA-tagged protein in 293T cells using HATag antibody. A mock served as negative control and over-expressed 293T cell lysate served as positive control.