

Cat. No: MAB-94419
Conjugate: Unconjugated
Size: 100 ug
Clone: FR10
Concentration: 1mg/mL
Host: Mouse
Isotype: IgG1,Kappa
Immunogen: A synthetic peptide corresponding to DDDDK tag.
Reactivity: All Species

Applications: Western Blot: 1:2000 - 1:5000
 Immunohistochemistry: 1:50 - 1:500
 Immunofluorescence: 1:50 - 1:500
 Immunoprecipitation: 1:50 - 1:100

Molecular Weight: 55kDa/48kDa/40kDa

Purification: Purified

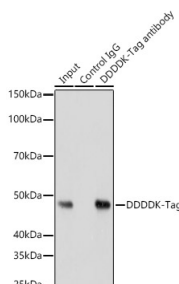
Background:

FLAG-tag, or FLAG octapeptide, or FLAG epitope, is a polypeptide protein tag that can be added to a protein using recombinant DNA technology, having the sequence motif DYKDDDDK. It has been used for studying proteins in living cells and for protein purification by affinity chromatography. It has been used to separate recombinant, overexpressed protein from wild-type protein expressed by the host organism. It can also be used in the isolation of protein complexes with multiple subunits, because its mild purification procedure tends not to disrupt such complexes. It has been used to obtain proteins of sufficient purity and quality to carry out 3D structure determination by x-ray crystallography. A FLAG-tag can be used in many different assays that require recognition by an antibody. If there is no antibody against a given protein, adding a FLAG-tag to a protein allows the protein to be studied with an antibody against the FLAG sequence. Examples are cellular localization studies by immunofluorescence or detection by SDS PAGE protein electrophoresis and Western blotting.

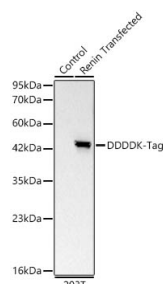
Form: Liquid

Buffer: PBS with 0.05% proclin300,50% glycerol,pH7.3.

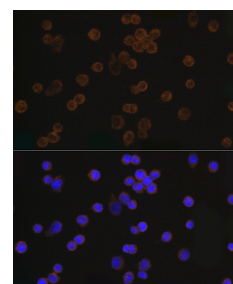
Storage: At +4°C for short term. For longer term store at -20°C, avoid repeat freeze-thaw cycles.



Immunoprecipitation analysis of 200ug extract cell lysate from 293T cells

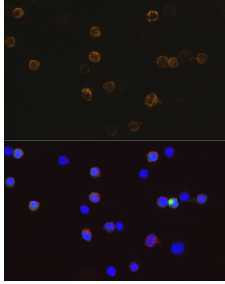


Western blot analysis of lysates from wild type (WT) and 293T cells



Immunofluorescence analysis of 293T cells using Mouse anti DDDDK-Tag mAb

transfected with GSK3B expression vector containing a DDDDK-Tag with 3 µg Mouse anti DDDDK-Tag mAb antibody. Western blot was performed from the immunoprecipitate using Mouse anti DDDDK-Tag mAb antibody.

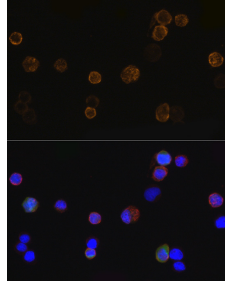


Immunofluorescence analysis of 293TBCAT2- Flag-GFP-C cells using Mouse anti DDDDK-Tag mAb at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

transfected with Renin using Mouse anti DDDDK-Tag mAb at 1:5000 dilution.

Secondary antibody: HRP Goat Anti-Mouse IgG (H+L) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL West Pico Plus.
Exposure time: 60s.



Immunofluorescence analysis of 293TBCAT2- Flag-GFP-N cells using Mouse anti DDDDK-Tag mAb at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.