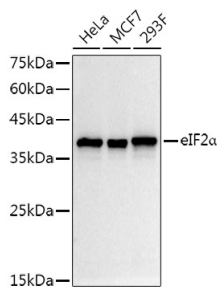


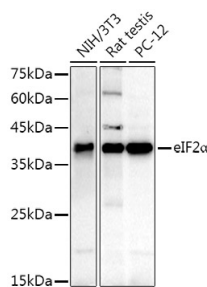
<b>Cat. No:</b>	MAB-94711
<b>Conjugate:</b>	Unconjugated
<b>Size:</b>	100 ug
<b>Clone:</b>	D7D3
<b>Concentration:</b>	1mg/ml
<b>Host:</b>	Rb
<b>Isotype:</b>	IgG
<b>Immunogen:</b>	A recombinant protein fragment corresponding to a sequence of human EIF2A
<b>Reactivity:</b>	Hu, Ms, Rt
<b>Applications:</b>	Western Blot: 1:1000;IF: 1:50; ICC 1:50
<b>Molecular Weight:</b>	38kDa
<b>Purification:</b>	Aff. Pur.
<b>Synonyms:</b>	EIF-2;EIF-2A;EIF-2alpha;EIF2;EIF2A;EIF2S1

**Background:** The translation initiation factor EIF2 catalyzes the first regulated step of protein synthesis initiation, promoting the binding of the initiator tRNA to 40S ribosomal subunits. Binding occurs as a ternary complex of methionyl-tRNA, EIF2, and GTP. EIF2 is composed of 3 nonidentical subunits, the 36-kD EIF2-alpha subunit (EIF2S1), the 38-kD EIF2-beta subunit (EIF2S2; MIM 603908), and the 52-kD EIF2-gamma subunit (EIF2S3; MIM 300161). The rate of formation of the ternary complex is modulated by the phosphorylation state of EIF2-alpha

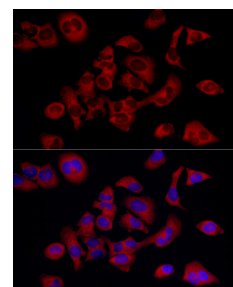
<b>Form:</b>	Liquid
<b>Buffer:</b>	PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3
<b>Storage:</b>	Store at -20°C, and avoid repeat freeze-thaw cycles.



Western blot analysis of extracts of various cell lines, using eIF2 $\alpha$  antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.  
Lysates/proteins: 25ug per lane.  
Blocking buffer: 3% nonfat dry milk in



Western blot analysis of extracts of various cell lines, using eIF2 $\alpha$  antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.  
Lysates/proteins: 25ug per lane.  
Blocking buffer: 3% nonfat dry milk in



Immunofluorescence analysis of HeLa using eIF2 $\alpha$  Rabbit MAb at dilution of 1:50 (40x lens). Blue: DAPI for nuclear staining.

TBST.  
Detection: ECL Basic Kit.  
Exposure time: 3s.

TBST.  
Detection: ECL Basic Kit.  
Exposure time: 30s.

**For Research use only  
IMMUNOLOGICAL SCIENCES**