

Anti-Phospho-EIF2S1 (Ser49) Polyclonal Antibody

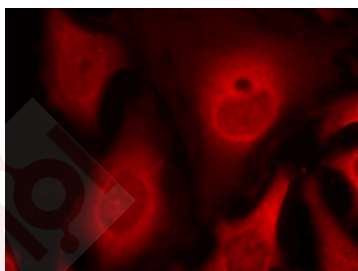
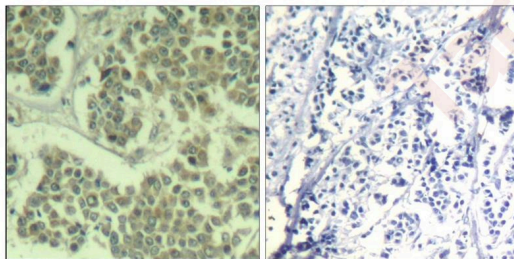
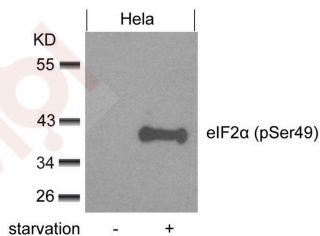
Product Details

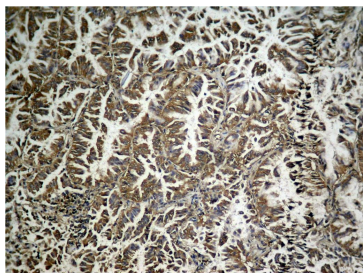
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Purification:	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.

Applications

Verified Activity:

1. Western blot analysis of extracts from HeLa cells untreated or treated with starvation using eIF2 α (phospho-Ser49) Antibody TMAC-01264.
2. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using eIF2 α (Phospho-Ser49) Antibody TMAC-01264 (left) or the same antibody preincubated with blocking peptide #51511 (right).
3. Immunofluorescence staining of methanol-fixed HeLa cells using eIF2 α (phospho-Ser49) Antibody TMAC-01264.
4. Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue, using eIF2 α (Phospho-Ser49) Antibody TMAC-01264.





Application: IF,IHC,WB

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Peptide sequence around phosphorylation site of Serine 49 (L-L-S(p)-E-L) derived from Human eIF2a

Antigen Species: human

Uniprot ID: P05198

Synonyms: EIF 2alpha;p-EIF2S1 (S49);EIF2 alpha;EIF2;IF2A_HUMAN;EIF 2;EIF2S1 (p-Ser49);Phospho-EIF2S1 (S49);EIF 2A;EIF2S1 (p-S49);p-EIF2S1 (Ser49);Eukaryotic translation initiation factor 2 subunit 1 alpha 35kDa;EIF2A;EIF 2 alpha

Research Background

Functions in the early steps of protein synthesis by forming a ternary complex with GTP and initiator tRNA. This complex binds to a 40S ribosomal subunit, followed by mRNA binding to form a 43S preinitiation complex. Junction of the 60S ribosomal subunit to form the 80S initiation complex is preceded by hydrolysis of the GTP bound to eIF-2 and release of an eIF-2-GDP binary complex. In order for eIF-2 to recycle and catalyze another round of initiation, the GDP bound to eIF-2 must exchange with GTP by way of a reaction catalyzed by eIF-2B.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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