

Phospho-eIF2-alpha pSer51 Antibody (S.674.5)

Lot Number: QG2050842

Product Data Sheet

Tested Species Reactivity

Drosophila (Dm)
Human (Hu)
Mouse (Ms)
Non-human primate (Nhp)
Rat (Rt)

Tested Applications	Dilution *
Western Blot (WB)	1:1000
Immunohistochemistry (Paraffin) (IHC (P))	1:50
Immunoprecipitation (IP)	1:50

* Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.

Details

Catalog Number:	MA5-15133
Size:	100 µL
Class:	Monoclonal
Type:	Antibody
Clone:	S.674.5
Host / Isotype:	Rabbit / IgG
Immunogen:	Synthetic phosphopeptide corresponding to residues surrounding pSer51 of human eIF2alpha

Form Information

Form:	Liquid
Purification:	Affinity chromatography
Storage Buffer:	0.01M HEPES, pH 7.5, with 0.15M NaCl, 100µg/ml BSA, 50% glycerol
Preservative:	<0.02% sodium azide
Storage Conditions:	-20°C

Product Specific Information

It is not recommended to aliquot this antibody.

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General Information

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 (Ernst et al., 1987).

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