eIF2α (Phospho Ser51) Rabbit pAb

CatalogNo: YP0093

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat,Dog,Pig,Fish

Applications
- WB,IHC,IF,ELISA

MW
- 38kD (Observed)

Isotype
- IgG

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

IF 1:50-200
WB 1:500-1:2000
IHC 1:100-1:300
ELISA 1:10000
Not yet tested in other applications

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human eIF2 alpha around the phosphorylation site of Ser51. AA range:21-70

Specificity	Phospho-eIF2α (S51) Polyclonal Antibody detects endogenous levels of eIF2α protein only when phosphorylated at S51.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):ELsRR

Target Information

Gene name	EIF2S1
Protein Name	Eukaryotic translation initiation factor 2 subunit 1

Organism	Gene ID	UniProt ID
Human	1965;	P05198;
Mouse	13665;	Q6ZWX6;
Rat	54318;	P68101;

Cellular Localization	Cytoplasm , Stress granule . Colocalizes with NANOS3 in the stress granules. .
Tissue specificity	B cells ,Brain ,Fibroblast ,Placenta ,
Function	Function: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. ,PTM:Substrate for at least 4 kinases: EIF2AK3/PERK , GCN2 , HRI and PKR. Phosphorylation stabilizes the eIF-2/GDP/eIF-2B complex and prevents GDP/GTP exchange reaction , thus impairing the recycling of eIF-2 between successive rounds of initiation and leading to global inhibition of translation. In case of infection by vaccinia virus or rotavirus A , eIF2S1 phosphorylation state is modulated. ,similarity:Belongs to the eIF-2-alpha family. ,similarity:Contains 1 S1 motif domain. ,subunit:Heterotrimer composed of an alpha , a beta and a gamma chain. Component of an EIF2 complex at least composed of CUGBP1 , CALR , CALR3 , EIF2S1 , EIF2S2 , HSP90B1 and HSPA5. ,

Validation Data

Contact information

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Please scan the QR code to access additional product information:
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