

Product datasheet for AP20862PU-N

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elF2 alpha (EIF2S1) pSer51 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IHC, WB

Recommended Dilution: Western blot: 1/500 - 1/1000.

Immunohistochemistry on paraffin sections: 1/50 - 1/200.

Reactivity: Human, Mouse, Rat

Host: Rabbit

Clonality: Polyclonal

Specificity: This antibody detects endogenous levels of eIF2alpha protein only when phosphorylated at

Ser51.

Formulation: Phosphate buffered saline (PBS), pH 7.2.

State: Aff - Purified

State: Liquid purified Ig fraction Preservative: 0.05% sodium azide

Concentration: 1.0 mg/ml

Purification: Affinity chromatography (> 95% (by SDS-PAGE)

Conjugation: Unconjugated

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Predicted Protein Size: ~ 38 kDa

Gene Name: eukaryotic translation initiation factor 2 subunit alpha

Database Link: Entrez Gene 13665 MouseEntrez Gene 54318 RatEntrez Gene 1965 Human

P05198



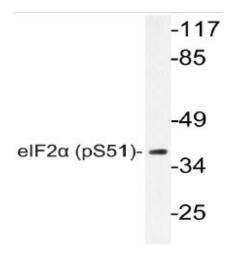
Background:

Phosphorylation of the alpha subunit of eukaryotic initiation factor 2 (eIF2alpha) is known to be an important translational control mechanism. Regulation of mammalian eIF2alpha activity is directly governed by specific phosphorylation on Serine 52. In mammalian cells, eIF2alpha is phosphorylated at Serine 52 by at least two kinases, the haem-controlled repressor and the interferon-inducible double stranded RNA-dependent protein kinase. This phosphorylation event results in an inhibition in the exchange of bound nucleotides and the recycling of eIF2alpha. In addition, phosphorylation of eIF2alpha blocks the GDP-GTP exchange activity of eIF2beta, resulting in the suppression of protein synthesis.

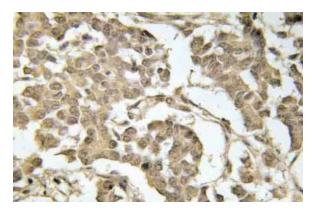
Synonyms:

EIF2-A, eIF-2A, eIF-2-alpha, eIF-2alpha, eIF2 alpha

Product images:



Western blot (WB) analyzes of p-eIF2alpha antibody (Cat.-No.: AP20862PU-N) in extracts from Jurkat insulin cells.



Immunohistochemistry (IHC) analyzes of pelF2alpha (Cat.-No.: AP20862PU-N) in paraffinembedded human breast carcinoma tissue.