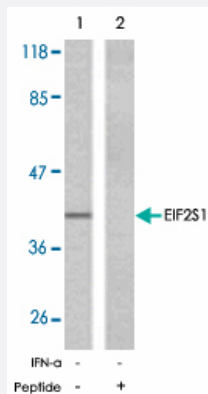


EIF2S1 polyclonal antibody

Catalog # PAB5339

Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of extracts from A-431 cells, untreated or EGF-treated (200 ng/ml, 5 min), using EIF2S1 polyclonal antibody (Cat # PAB5339) .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of EIF2S1.
Immunogen	A synthetic peptide corresponding to residues surrounding S51 of human EIF2S1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	Immunohistochemistry (1:50-1:100) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of extracts from A-431 cells, untreated or EGF-treated (200 ng/ml, 5 min), using EIF2S1 polyclonal antibody (Cat # PAB5339) .

- Immunohistochemistry

Gene Info — EIF2S1

Entrez GeneID [1965](#)

Gene Name EIF2S1

Gene Alias EIF-2, EIF-2A, EIF-2alpha, EIF2, EIF2A

Gene Description eukaryotic translation initiation factor 2, subunit 1 alpha, 35kDa

Omim ID [603907](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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, alpha (36 kD), beta (38 kD, MIM 603908), and gamma (52 kD, MIM 300161). The rate of formation of the ternary complex is modulated by the phosphorylation state of eIF2-alpha (Ernst et al., 1987 [PubMed 2948954]).[supplied by OMIM]

Other Designations eIF-2-alpha|eukaryotic translation initiation factor 2, subunit 1 (alpha, 35kD)

Publication Reference

- [Identification of a hydrogen peroxide-induced PP1-JNK1-Sp1 signaling pathway for gene regulation.](#)

Chu S, Ferro TJ.

American Journal of Physiology. Lung Cellular and Molecular Physiology 2006 Nov; 291(5):L983.

- [Hypoxia inhibits protein synthesis through a 4E-BP1 and elongation factor 2 kinase pathway controlled by mTOR and uncoupled in breast cancer cells.](#)

Connolly E, Braunstein S, Formenti S, Schneider RJ.

Molecular and Cellular Biology 2006 May; 26(10):3955.

Application: WB, Human, CRL2324, HTB20, MCF10A cells

- [Rapamycin-induced translational derepression of GCN4 mRNA involves a novel mechanism for activation of the eIF2 alpha kinase GCN2.](#)

Kubota H, Obata T, Ota K, Sasaki T, Ito T.

The Journal of Biological Chemistry 2003 Jun; 278(23):20457.

Application: WB-Tr, Yeast, Yeast cells

Disease

- [Hepatitis B](#)