Datasheet for ABIN7601508

anti-EIF2AK1 antibody (AA 37-508)

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Overview

Quantity:	100 µg
Target:	EIF2AK1
Binding Specificity:	AA 37-508
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EIF2AK1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-EIF2AK1 Antibody Picoband®
Immunogen:	E.coli-derived human EIF2AK1 recombinant protein (Position: E37-D508).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-EIF2AK1 Antibody Picoband® (ABIN7601508). Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	EIF2AK1
Alternative Name:	EIF2AK1 (EIF2AK1 Products)
Background:	Synonyms: Prion-like protein doppel, PrPLP, Prion protein 2, PRND, DPL, UNQ1830/PRO3443 Tissue Specificity: Expressed in testis, in Sertoli cells, ejaculated spermatozoa and in seminal fluid (at protein level). Background: Eukaryotic translation initiation factor 2-alpha kinase 1 is an enzyme that in humans is encoded by the EIF2AK1 gene. The protein encoded by this gene acts at the level of translation initiation to downregulate protein synthesis in response to stress. The encoded protein is a kinase that can be inactivated by hemin. Two transcript variants encoding different isoforms have been found for this gene.
Molecular Weight:	71 kDa
Gene ID:	27102
Pathways:	Hepatitis C

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human ELISA, 0.1-0.5 µg/mL, - 1. Abdel-Nour, M., Carneiro, L. A. M., Downey, J., Tsalikis, J., Outlioua, A., Prescott, D., Da Costa, L. S., Hovingh, E. S., Farahvash, A., Gaudet, R. G., Molinaro, R., van Dalen, R., and 11 others. The heme-regulated inhibitor is a cytosolic sensor of protein misfolding that controls innate immune signaling. Science 365: eaaw4144, 2019. Note: Electronic Article. 2. Acharya, P., Chen, J.-J., Correia, M. A. Hepatic heme-regulated inhibitor (HRI) eukaryotic initiation factor 2-alpha kinase: a protagonist of heme-mediated translational control of CYP2B enzymes and a modulator of basal endoplasmic reticulum stress tone. Molec. Pharm. 77: 575-592, 2010. Note: Retraction: Molec. Pharm. 100: 95 only, 2021. 3. Chen, J.-J., London, I. M. Regulation of protein synthesis by heme-regulated eIF-2-alpha kinase. Trends Biochem. Sci. 20: 105-108, 1995.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized

Handling

Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.