Datasheet for ABIN6719594

anti-EIF6 antibody (AA 66-210)

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Overview

Quantity:	100 µg
Target:	EIF6
Binding Specificity:	AA 66-210
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This EIF6 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-EIF6 Antibody Picoband® (monoclonal, 2I11)
Immunogen:	E.coli-derived human EIF6 recombinant protein (Position: N66-T210). Human EIF6 shares 99.3% amino acid (aa) sequence identity with both mouse and rat EIF6.
Clone:	2I11
Isotype:	IgG2a
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-EIF6 Antibody Picoband® (monoclonal, 2I11) (ABIN6719594). Tested in Flow Cytometry, IHC, 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.

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	EIF6
Alternative Name:	EIF6 (EIF6 Products)
Background:	Synonyms: Eukaryotic translation initiation factor 6, eIF-6, B (2)GCN homolog, B4 integrin interactor, CAB, p27 (BBP), EIF6, EIF3A, ITGB4BP, OK/SW-cl.27 Tissue Specificity: Expressed at very high levels in colon carcinoma with lower levels in normal colon and ileum and lowest levels in kidney and muscle. Background: EIF6 (Eukaryotic Translation Initiation Factor 6), also called EIF3A or ITGB4BP, is a human gene. By fluorescence in situ hybridization, Sanvito et al. (1998) mapped the ITGB4BP gene to 20q11.2. Ceci et al. (2003) demonstrated that the ribosomal 60S subunit is activated by release of EIF6. In the cytoplasm, EIF6 is bound to free 60S but not to 80S subunits. Furthermore, EIF6 interacts in the cytoplasm with RACK1, a receptor for activated protein kinase C. Gandin et al. (2008) demonstrated that mammalian eIF6 is required for efficient initiation of translation in vivo. Eif6-null mouse embryos were lethal at preimplantation. Heterozygous mice had 50 % reduction of eIF6 levels in all tissues, and showed reduced mass of hepatic and adipose tissues due to a lower number of cells and to impaired G1/S cell cycle progression.
Molecular Weight:	26 kDa
Gene ID:	3992
UniProt:	P56537
Pathways:	Ribonucleoprotein Complex Subunit Organization, Ribosome Assembly

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells

1. Ceci, M., Gaviraghi, C., Gorrini, C., Sala, L. A., Offenhauser, N., Marchisio, P. C., Biffo, S. Release of eIF6 (p27-BBP) from the 60S subunit allows 80S ribosome assembly. Nature 426: 579-584, 2003. 2. Gandin, V., Miluzio, A., Barbieri, A. M., Beugnet, A., Kiyokawa, H., Marchisio, P. C., Biffo, S. Eukaryotic initiation factor 6 is rate-limiting in translation, growth and transformation. Nature 455: 684-688, 2008. 3. Sanvito, F., Arrigo, G., Zuffardi, O., Agnelli, M., Marchisio, P. C., Biffo, S.

Application Details

	Localization of p27 beta-4 binding protein gene (ITGB4BP) to human chromosome region 20q11.2. Genomics 52: 111-112, 1998.
Comment:	Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested. Optimal dilutions should be determined by end users.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 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, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store 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 freeze-thaw cycles.