Datasheet for ABIN1881290

anti-EIF3E antibody (AA 248-276)

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Overview

Quantity:	400 µL
Target:	EIF3E
Binding Specificity:	AA 248-276
Reactivity:	Human, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB)

Product Details

Immunogen:	This EIF3E antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 248-276 amino acids from the Central region of human EIF3E.
Clone:	RB40515
Isotype:	Ig Fraction
Predicted Reactivity:	X, B, C, Pr, M, Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	EIF3E
Alternative Name:	EIF3E (EIF3E Products)
Background:	Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for

Target Details

	several steps in the initiation of protein synthesis. The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNAi and eIF-5 to form the 43S preinitiation complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of posttermination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation. Required for nonsense-mediated mRNA decay (NMD), may act in conjunction with UPF2 to divert mRNAs from translation to the NMD pathway. May interact with MCM7 and EPAS1 and regulate the proteasome-mediated degradation of these proteins.
Molecular Weight:	52221
NCBI Accession:	NP_001559
UniProt:	P60228
Pathways:	Ribonucleoprotein Complex Subunit Organization, Hepatitis C

Application Details

Application Notes:	WB: 1:1000. WB: 1:1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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
Expiry Date:	6 months

Publications

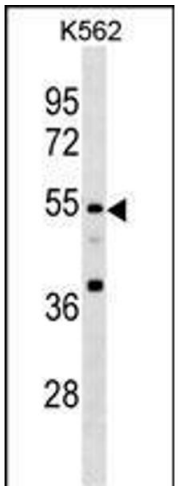
Product cited in:	Zampagni, Cascella, Casamenti, Grossi, Evangelisti, Wright, Becatti, Liguri, Mannini, Campioni, Chiti, Cecchi: "A comparison of the biochemical modifications caused by toxic and non-toxic protein oligomers in cells." in: **Journal of cellular and molecular medicine**, Vol. 15, Issue 10, pp.

Publications

2106-16, (2011) (PubMed).

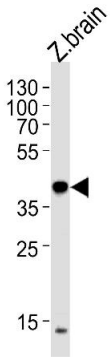
Liao, Lasbury, Wang, Zhang, Durant, Murakami, Matsufuji, Lee: "Pneumocystis mediates overexpression of antizyme inhibitor resulting in increased polyamine levels and apoptosis in alveolar macrophages." in: **The Journal of biological chemistry**, Vol. 284, Issue 12, pp. 8174-84, (2009) (PubMed).

Images



Western Blotting

Image 1. EIF3E Antibody (Center) (ABIN1881290 and ABIN2838389) western blot analysis in K562 cell line lysates (35 µg/lane).This demonstrates the EIF3E antibody detected the EIF3E protein (arrow).



Western Blotting

Image 2. (DANRE) eif3eb Antibody (Center) (ABIN1881290 and ABIN2838389) western blot analysis in zebra fish brain tissue lysates (35 µg/lane).This demonstrates the (DANRE) eif3eb antibody detected the (DANRE) eif3eb protein (arrow).