



Datasheet for ABIN2854984 **anti-EIF2A antibody (Center)**



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2 Images

1 Publication

Overview

Quantity:	100 µL
Target:	EIF2A
Binding Specificity:	Center
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EIF2A antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human eIF2 alpha. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Rhesus Monkey
Cross-Reactivity (Details):	Rhesus Monkey (100 %)
Characteristics:	Rabbit Polyclonal antibody to eIF2 alpha (eukaryotic translation initiation factor 2, subunit 1 alpha, 35 kDa) eIF2 alpha antibody [N1C3]
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	EIF2A
Alternative Name:	eIF2 alpha (EIF2A Products)
Background:	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]
Molecular Weight:	36 kDa
Gene ID:	1965
Pathways:	Ribonucleoprotein Complex Subunit Organization , ER-Nucleus Signaling , Hepatitis C , Methionine Biosynthetic Process , Ribosome Assembly

Application Details

Application Notes:	Suggested dilution Reference ICC/IF 1:100-1:1000* Western blot 1:500-1:3000* Not tested in other applications. *Optimal dilutions/concentrations should be determined by the researcher.Suggested dilutionReferenceICC/IF1:100-1:1000* Western blot1:500-1:3000*
Comment:	Positive Control: H1299 , Raji , *rat neuron , *HeLa , *N2a ,
Restrictions:	For Research Use only

Handling

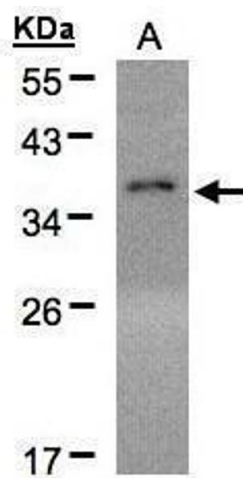
Format:	Liquid
Concentration:	0.31 mg/mL
Buffer:	0.1M Tris, 0.1M Glycine, 10 % Glycerol (pH 7). 0.01 % Thimerosal was added as a preservative.
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw

cycles.

Publications

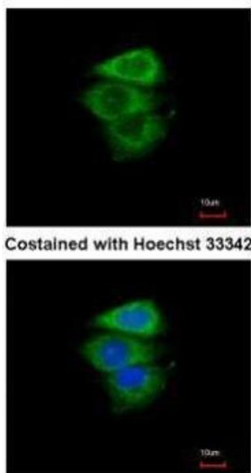
Product cited in: Wu, Yen, Kou, Wu: "Luteolin and Apigenin Attenuate 4-Hydroxy-2-Nonenal-Mediated Cell Death through Modulation of UPR, Nrf2-ARE and MAPK Pathways in PC12 Cells." in: **PLoS ONE**, Vol. 10, Issue 6, pp. e0130599, (2016) ([PubMed](#)).

Validation report #104426 for Immunohistochemistry (IHC)



Western Blotting

Image 1. WB Image Sample(30 µg of whole cell lysate)
A:H1299 12% SDS PAGE antibody diluted at 1:500



Immunofluorescence

Image 2. ICC/IF Image Immunofluorescence analysis of paraformaldehyde-fixed A549, using eIF2 alpha, antibody at 1:200 dilution.