abcam

Product datasheet

Anti-eIF3A antibody [EPR5819(2)] ab128996

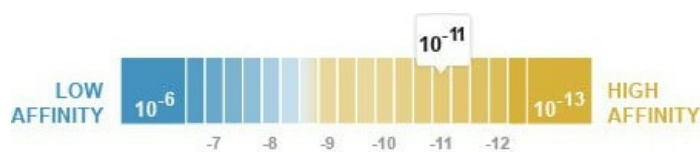Recombinant RabMAb

6 References   5 Images

Overview

Product name	Anti-eIF3A antibody [EPR5819(2)]
Description	Rabbit monoclonal [EPR5819(2)] to eIF3A
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P, ICC/IF **Unsuitable for:** IP
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide within Human eIF3A aa 1100-1200. The exact sequence is proprietary.
Positive control	BxPC3, 293T, Jurkat, C6, RAW264.7, PC12 and L6 lysates; Human brain tissue; BxPC3 cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Dissociation constant (K_D)	$K_D = 8.20 \times 10^{-11}$ M

Learn more about K_D

Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture

supernatant

Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR5819(2)
Isotype	IgG

Applications

The Abpromise guarantee   Our **Abpromise guarantee** covers the use of ab128996 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
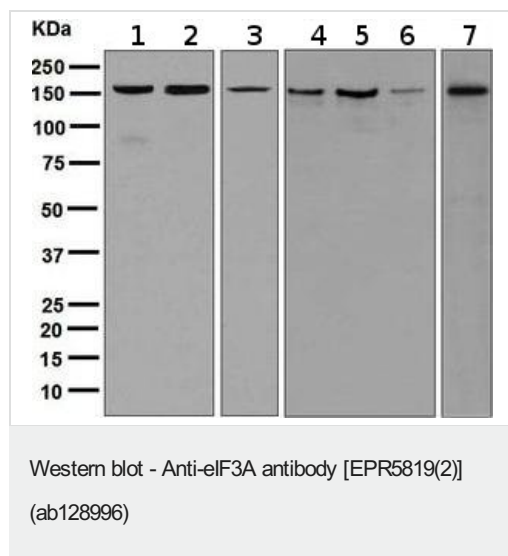
Application	Abreviews	Notes
WB		1/1000 - 1/10000. Detects a band of approximately 170 kDa (predicted molecular weight: 166 kDa).
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ICC/IF		1/250 - 1/500.

Application notes   Is unsuitable for IP.

Target

Function   Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for 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 pre-initiation 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 post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation. Essential for the initiation of translation on type-1 viral ribosomal entry sites (IRESs), like for HCV, PV, EV71 or BEV translation (PubMed:23766293, PubMed:24357634). In case of FCV infection, plays a role in the ribosomal termination-reinitiation event leading to the translation of VP2 (PubMed:18056426).

Sequence similarities   Belongs to the eIF-3 subunit A family.
Contains 1 PCI domain.

Post-translational modifications   Phosphorylated. Phosphorylation is enhanced upon serum stimulation.

Cellular localization   Cytoplasm.

Images

Western blot - Anti-eIF3A antibody [EPR5819(2)] (ab128996)

All lanes : Anti-eIF3A antibody [EPR5819(2)] (ab128996) at 1/1000 dilution

Lane 1 : BxPC-3 (Human pancreas adenocarcinoma cell line) whole cell lysate

Lane 2 : 293T (Human embryonic kidney epithelial cell) cell lysate

Lane 3 : Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate

Lane 4 : C6 (Rat glial tumor cell line) whole cell lysate

Lane 5 : RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate

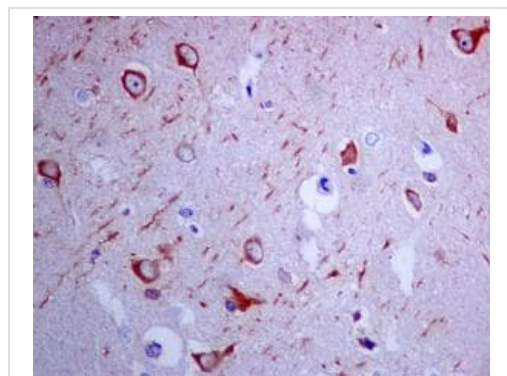**Lane 6 :** PC-12 (Rat adrenal gland pheochromocytoma cell line) whole cell lysate

Lane 7 : L6 (Rat skeletal muscle cell line) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat anti-Rabbit HRP at 1/2000 dilution
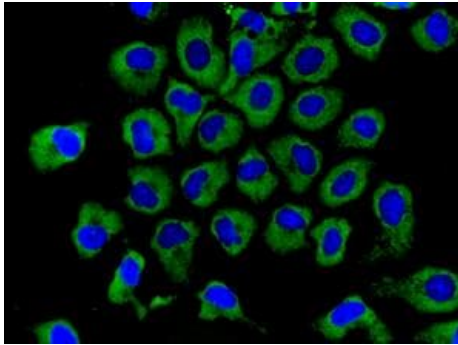
Predicted band size: 166 kDa

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-eIF3A antibody [EPR5819(2)] (ab128996)
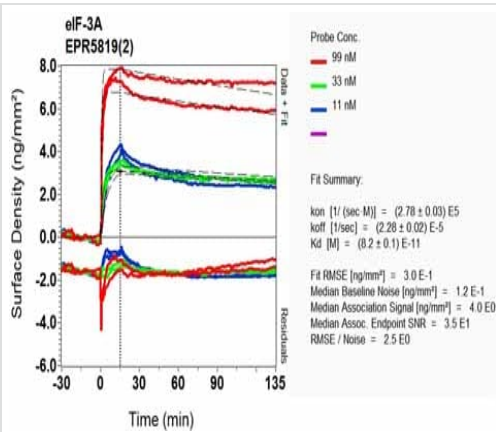
ab128996, at 1/50 dilution, staining eIF3A in paraffin-embedded Human brain tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

ab128996, at 1/250 dilution, staining eIF3A in BxPC3 cells by Immunofluorescence.

Immunocytochemistry/ Immunofluorescence - Anti-eIF3A antibody [EPR5819(2)] (ab128996)

Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D

OI-RD Scanning - Anti-eIF3A antibody [EPR5819(2)] (ab128996)

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-eIF3A antibody [EPR5819(2)] (ab128996)

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