

Product datasheet

Anti-eIF3A antibody [EPR5819(2)] α b128996

Recombinant **RabMAb**

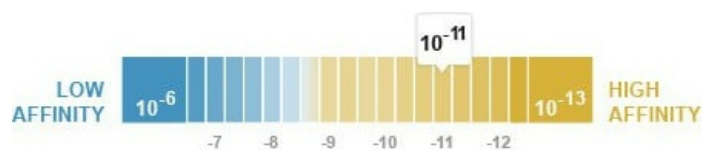
[4 References](#) [5 Images](#)

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	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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 x 10 ⁻¹¹ M



[Learn more about K_D](#)

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

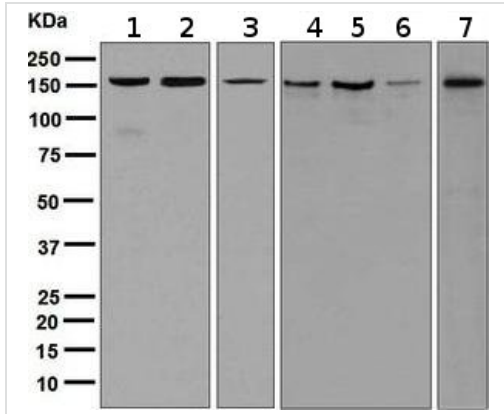
Function Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis. The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNA_i and eIF-5 to 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 : BxPC3 cell lysate

Lane 2 : 293T cell lysate

Lane 3 : Jurkat cell lysate

Lane 4 : C6 cell lysate

Lane 5 : RAW264.7 cell lysate

Lane 6 : PC12 cell lysate

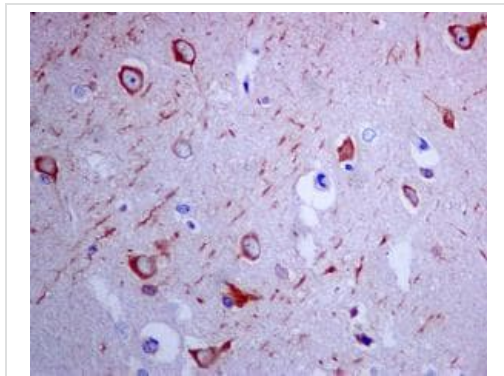
Lane 7 : L6 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat anti-Rabbit HRP at 1/2000 dilution

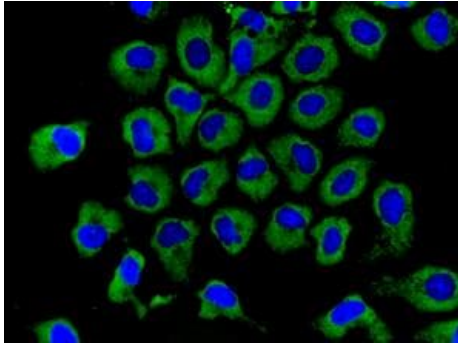
Predicted band size: 166 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-eIF3A antibody [EPR5819(2)] (ab128996)

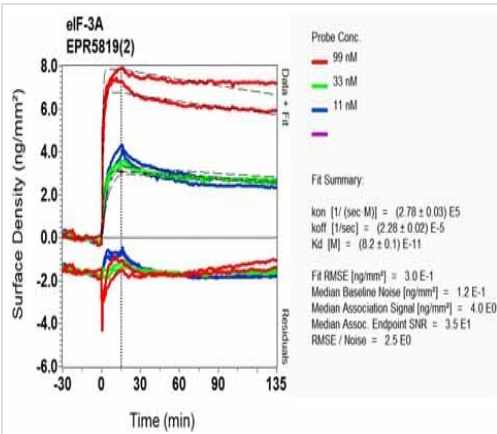
ab128996, at 1/50 dilution, staining eIF3A in paraffin-embedded Human brain tissue by Immunohistochemistry.

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



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

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



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

Equilibrium dissociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

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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