abcam

Product datasheet

Anti-eIF3e antibody [EPR6877] ab125033

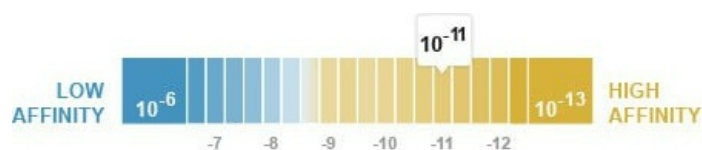Recombinant   RabMAb

1 References   3 Images

Overview

Product name	Anti-eIF3e antibody [EPR6877]
Description	Rabbit monoclonal [EPR6877] to eIF3e
Host species	Rabbit
Tested applications	**Suitable for:** WB **Unsuitable for:** Flow Cyt,IHC-P or IP
Species reactivity	**Reacts with:** Mouse, Human **Predicted to work with:** Rat
Immunogen	Synthetic peptide within Human eIF3e aa 200-300. The exact sequence is proprietary.
Positive control	Jurkat, 293T, BxPC-3, A431, Saos 2, HepG2 and NIH 3T3 cell lysates
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)	$K_D = 9.40 \times 10^{-11}$ M

Learn more about K_D

Storage buffer	pH: 7.20

Preservative: 0.01% Sodium azide
Constituents: 0.31% Sodium citrate, 0.175% Sodium chloride, 0.0172% EDTA disodium salt, 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA

Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR6877
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab125033 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 48 kDa (predicted molecular weight: 52 kDa).

Application notes Is unsuitable for Flow Cyt,IHC-P or 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 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.
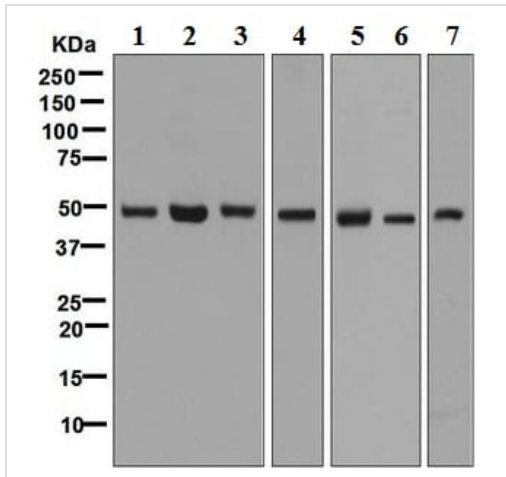
Tissue specificity Ubiquitously expressed. Expressed at highest levels in appendix, lymph, pancreas, skeletal muscle, spleen and thymus.

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

Post-translational modifications Phosphorylated upon DNA damage, probably by ATM or ATR.

Cellular localization Cytoplasm. Nucleus > PML body.

Images

Western blot - Anti-eIF3e antibody [EPR6877]
(ab125033)

All lanes : Anti-eIF3e antibody [EPR6877] (ab125033) at 1/1000 dilution

Lanes 1 & 6 : Jurkat cell lysate

Lane 2 : 293T cell lysate

Lane 3 : BxPC3 cell lysate

Lane 4 : A431 cell lysate

Lane 5 : Saos 2 cell lysate

Lane 7 : NIH 3T3 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti rabbit at 1/2000 dilution

Predicted band size: 52 kDa
Observed band size: 48 kDa

Ol-RD Scanning - Anti-eIF3e antibody [EPR6877]
(ab125033)

Equilibrium disassociation 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-eIF3e antibody [EPR6877] (ab125033)

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