abcam

Product datasheet

Anti-DEPDC5 antibody [EPR20497-23] - BSA and Azide free ab272399

KO VALIDATED Recombinant RabMAb

3 Images

Overview

Product name	Anti-DEPDC5 antibody [EPR20497-23] - BSA and Azide free
Description	Rabbit monoclonal [EPR20497-23] to DEPDC5 - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** WB **Unsuitable for:** IHC-P or IP
Species reactivity	**Reacts with:** Mouse, Human **Does not react with:** Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Wild-type mouse E14 brain lysate. A549 cell lysate. Human Brain cell lysate
General notes	ab272399 is the carrier-free version of **ab213181**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. 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 +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR20497-23
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab272399 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

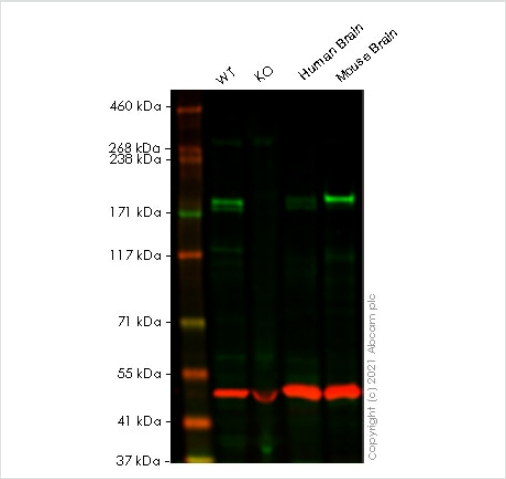
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 181 kDa (predicted molecular weight: 181 kDa).

Application notes Is unsuitable for IHC-P or IP.

Target

Sequence similarities Belongs to the IML1 family.
Contains 1 DEP domain.

Images



Western blot - Anti-DEPDC5 antibody [EPR20497-23] - BSA and Azide free (ab272399)

All lanes : Anti-DEPDC5 antibody [EPR20497-23] (**ab213181**) at 1/1000 dilution

Lane 1 : Wild-type A549 cell lysate
Lane 2 : DEPDC5 knockout A549 cell lysate
Lane 3 : Human brain tissue lysate
Lane 4 : Mouse brain tissue lysate

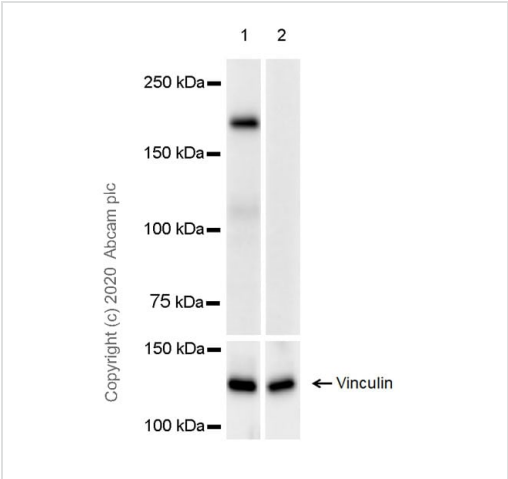
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 181 kDa
Observed band size: 181 kDa

False colour image of Western blot: Anti-DEPDC5 antibody [EPR20497-23] staining at 1/1000 dilution, shown in green; Mouse anti-Alpha Tubulin [DM1A] (**ab7291**) loading control staining at 1/20000 dilution, shown in red. In Western blot, **ab213181** was shown to bind specifically to DEPDC5. A band was observed at 181 kDa in wild-type A549 cell lysates with no signal observed at this size in DEPDC5 knockout cell line **ab266906** (knockout cell lysate **ab258394**). To generate this image, wild-type and DEPDC5 knockout A549 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 5 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged.Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD)

preabsorbed (**ab216776**) at 1/20000 dilution.



Western blot - Anti-DEPDC5 antibody [EPR20497-23] - BSA and Azide free (ab272399)

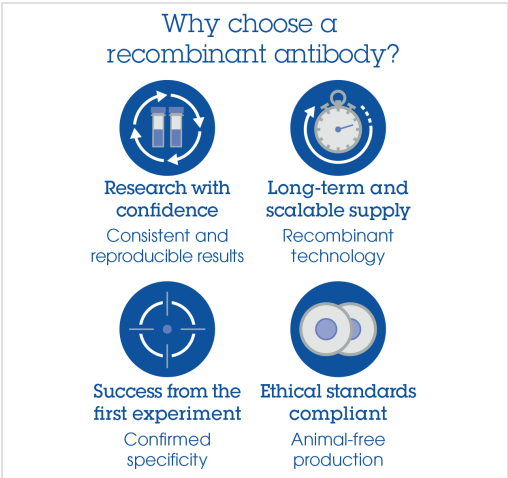
Blocking and diluting buffer and concentration: 5% NFDM/TBST.

The wild-type and DEPDC5 knockout mouse E14 brain tissue lysates were kindly provided by an anonymous collaborator.

ab213181 was shown to specifically react with DEPDC5 in wild-type mouse E14 brain tissue as signal was lost in DEPDC5 knockout tissue. Wild-type and DEPDC5 knockout samples were subjected to SDS-PAGE. **ab213181** and **ab129002** (Rabbit anti-Vinculin loading control) were incubated 1 hour at room temperature at 1/1000 dilution and 1/5000 dilution respectively. Blots were developed with Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) secondary antibody at 1/100, 000 dilution for 1 hour at room temperature before imaging. The blot was developed on a BIO-RAD® ChemiDoc™ MP instrument using the ECL technique.

Exposure time: 26 seconds.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, glycerol, BSA and sodium azide (**ab213181**).



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