

Product datasheet

Anti-DEPDC5 antibody [EPR20497-23] α b213181

KO **VALIDATED** Recombinant RabMAb[®]

★★★★★ [2 Abreviews](#) [1 References](#) [3 Images](#)

Overview

Product name	Anti-DEPDC5 antibody [EPR20497-23]
Description	Rabbit monoclonal [EPR20497-23] to DEPDC5
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, Wild-type A549 cell lysate, Mouse Brain cell lysate, Human Brain cell lysate
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 +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR20497-23

Isotype

IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab213181 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

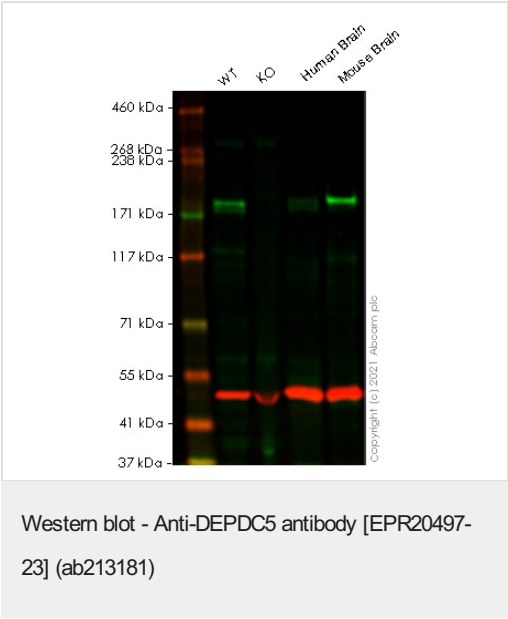
Application	Abreviews	Notes
WB	★★★★★ (2)	1/1000. Detects a band of approximately 181 kDa (predicted molecular weight: 181 kDa).

Application notes Is unsuitable for IHC-P or IP.

Target

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

Images



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

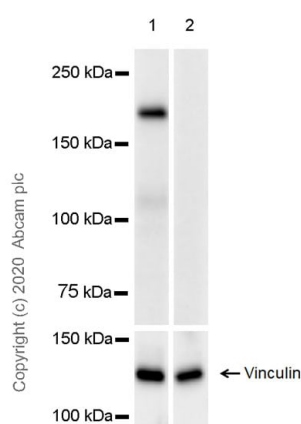
Lysates/proteins at 20 µg per lane.

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] (ab213181)

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

Lane 1 : Wild-type mouse E14 brain tissue lysate

Lane 2 : DEPDC5 knockout mouse E14 brain tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated ([ab97051](#)) at 1/100000 dilution

Predicted band size: 181 kDa

Observed band size: 181 kDa





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.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-DEPDC5 antibody [EPR20497-23] (ab213181)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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