


# Anti-Dkk3 antibody [EPR15611] - BSA and Azide free ab232657

Recombinant RabMAb

5 Images

### Overview

<b>Product name</b>	Anti-Dkk3 antibody [EPR15611] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR15611] to Dkk3 - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Human fetal brain, heart and kidney lysates; HepG2 cells, A549 whole cell lysate. ICC/IF: HepG2 cells. IP: Human fetal brain lysate
<b>General notes</b>	<p>ab232657 is the carrier-free version of <a href="#">ab186409</a>.</p> <p>Our <b>carrier-free</b> 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.</p> <p>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.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit</p>

monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR15611
<b>Isotype</b>	IgG

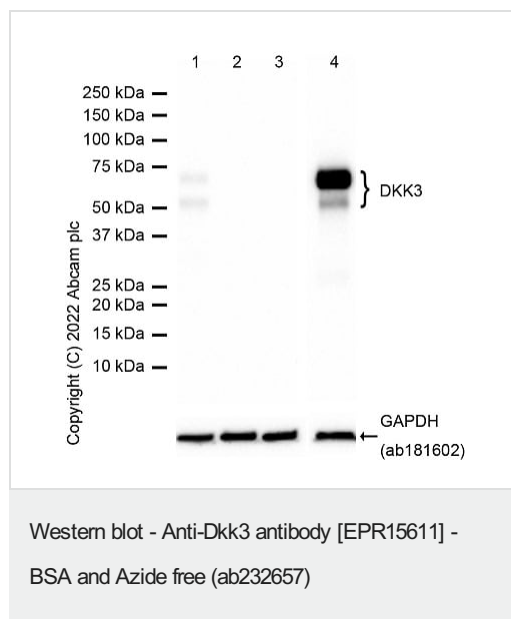
## Applications

**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab232657 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
<b>WB</b>		Use at an assay dependent concentration. Predicted molecular weight: 38 kDa.
<b>IP</b>		Use at an assay dependent concentration.
<b>ICC/IF</b>		Use at an assay dependent concentration.

## Target

<b>Function</b>	Antagonizes canonical Wnt signaling by inhibiting LRP5/6 interaction with Wnt and by forming a ternary complex with the transmembrane protein KREMEN that promotes internalization of LRP5/6. DKKs play an important role in vertebrate development, where they locally inhibit Wnt regulated processes such as antero-posterior axial patterning, limb development, somitogenesis and eye formation. In the adult, Dkks are implicated in bone formation and bone disease, cancer and Alzheimer disease.
<b>Tissue specificity</b>	Highest expression in heart, brain, and spinal cord.
<b>Sequence similarities</b>	Belongs to the dickkopf family.
<b>Domain</b>	The C-terminal cysteine-rich domain mediates interaction with LRP5 and LRP6.
<b>Post-translational modifications</b>	N- and O-glycosylated.
<b>Cellular localization</b>	Secreted.



**All lanes :** Anti-Dkk3 antibody [EPR15611] ([ab186409](#)) at 1/1000 dilution

**Lane 1 :** A549 (Human lung carcinoma epithelial cell) whole cell lysate

**Lane 2 :** PC-3 (Human prostate adenocarcinoma epithelial cell) whole cell lysate

**Lane 3 :** BxPC-3 (Human pancreas adenocarcinoma epithelial cell) whole cell lysate

**Lane 4 :** Human heart tissue lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

**Predicted band size:** 38 kDa

**Observed band size:** 50-70 kDa

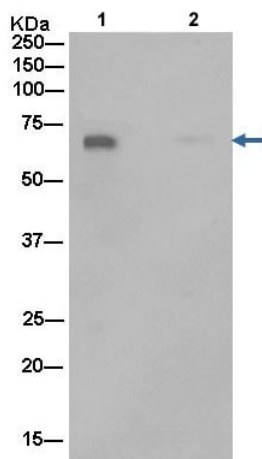
**Exposure time:** 10 seconds

**Blocking buffer and concentration:** 5% NFDm/TBST

**Diluting buffer and concentration:** 5% NFDm/TBST

DKK3 shows 50-70 kDa bands, which is due to glycosylation (PMID: 28674110. PMID: 28738084). DKK3 is not expressed in PC-3 and BxPC-3. Negative control: PC-3 (PMID: 22941469), BxPC-3 (PMID: 28470144, PMID: 26395974, PMID: 34391478).

This data was developed using the same antibody clone in a different buffer formulation ([ab186409](#)).

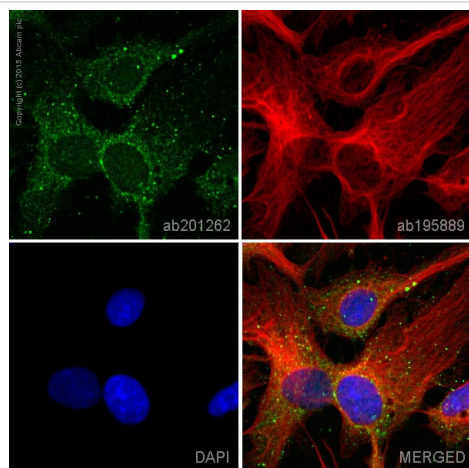


Immunoprecipitation - Anti-Dkk3 antibody  
[EPR15611] - BSA and Azide free (ab232657)

Western blot analysis of Dkk3 in Human fetal brain lysate immunoprecipitated with **ab186409** at 1/50 dilution (Lane 1). Lane 2: PBS instead of Human fetal brain lysate.

Secondary antibody: Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab186409**).

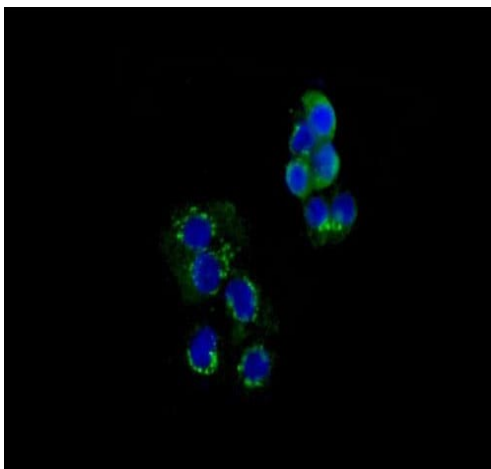


Immunocytochemistry/ Immunofluorescence - Anti-Dkk3 antibody [EPR15611] - BSA and Azide free (ab232657)

Clone EPR15611 (ab232657) has been successfully conjugated by Abcam. This image was generated using Anti-Dkk3 antibody [EPR15611] (Alexa Fluor® 488). Please refer to **ab201262** for protocol details.

**ab201262** staining Dkk3 in HepG2 cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with **ab201262** at a 1/100 dilution (shown in green) and **ab195889**, Mouse monoclonal to alpha Tubulin (Alexa Fluor® 594), at a 1/250 dilution (shown in red). Nuclear DNA was labelled with DAPI (shown in blue).

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).



Immunocytochemistry/ Immunofluorescence - Anti-Dkk3 antibody [EPR15611] - BSA and Azide free (ab232657)

Immunofluorescent analysis of 4% paraformaldehyde-fixed HepG2 (human liver hepatocellular carcinoma cell line) cells labeling Dkk3 with **ab186409** at 1/100 dilution, followed by Goat anti rabbit IgG (Alexa Fluor® 488) secondary antibody at 1/200 dilution. Counter stained with Dapi (blue).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab186409**).

#### 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

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

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