

Product datasheet

Anti-Dkk3 antibody [EPR15611] ab186409

Recombinant **RabMAb**

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

Overview

| | |
|----------------------------|---|
| Product name | Anti-Dkk3 antibody [EPR15611] |
| Description | Rabbit monoclonal [EPR15611] to Dkk3 |
| Host species | Rabbit |
| Tested applications | Suitable for: WB, ICC/IF, IP |
| Species reactivity | Reacts with: Human Predicted to work with: Mouse, Rat |
| Immunogen | Recombinant fragment. This information is proprietary to Abcam and/or its suppliers. |
| Positive control | Human fetal brain, heart and kidney lysates; HepG2 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 +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: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA |
| Purity | Protein A purified |
| Clonality | Monoclonal |
| Clone number | EPR15611 |
| Isotype | IgG |

Applications

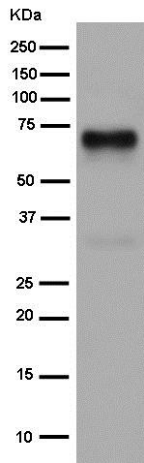
The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab186409 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|-------------|-----------|--|
| WB | | 1/1000 - 1/10000. Detects a band of approximately 60 kDa (predicted molecular weight: 38 kDa). |
| ICC/IF | | 1/100. |
| IP | | 1/50 - 1/70. |

Target

| | |
|---|---|
| Function | 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. |
| Tissue specificity | Highest expression in heart, brain, and spinal cord. |
| Sequence similarities | Belongs to the dickkopf family. |
| Domain | The C-terminal cysteine-rich domain mediates interaction with LRP5 and LRP6. |
| Post-translational modifications | N- and O-glycosylated. |
| Cellular localization | Secreted. |

Images



Western blot - Anti-Dkk3 antibody [EPR15611] (ab186409)

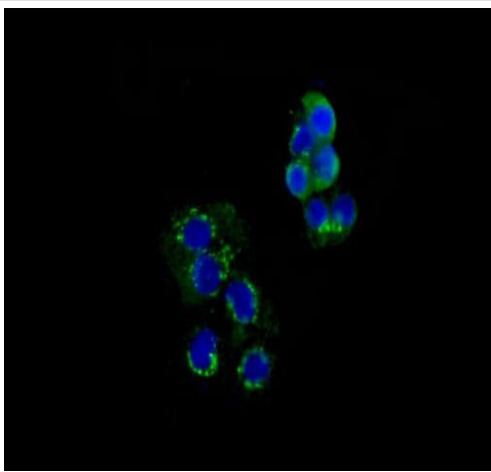
Anti-Dkk3 antibody [EPR15611] (ab186409) at 1/10000 dilution + Human fetal brain lysate at 20 µg

Secondary

Goat anti-rabbit IgG, (H+L), peroxidase conjugate at 1/1000 dilution

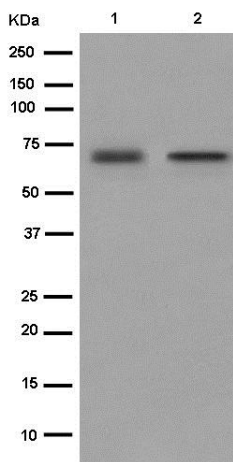
Predicted band size: 38 kDa

Observed band size: 60 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Dkk3 antibody [EPR15611] (ab186409)

Immunofluorescent analysis of 4% paraformaldehyde-fixed HepG2 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).



Western blot - Anti-Dkk3 antibody [EPR15611] (ab186409)

All lanes : Anti-Dkk3 antibody [EPR15611] (ab186409) at 1/5000 dilution

Lane 1 : Human fetal kidney lysate

Lane 2 : Human fetal heart lysate

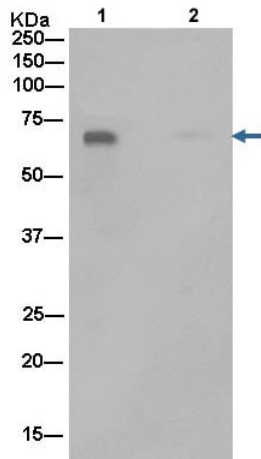
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 38 kDa

Observed band size: 60 kDa



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.

Immunoprecipitation - Anti-Dkk3 antibody
[EPR15611] (ab186409)

Why choose a recombinant antibody?



Anti-Dkk3 antibody [EPR15611] (ab186409)

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