# Anti-Dkk3 antibody [EPR15611] ab186409

**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: Mouse, Rat, Human

**Immunogen** Recombinant fragment within Human Dkk3 aa 250 to the C-terminus. The exact sequence is proprietary. 
Database link: Q9UBP4

**Positive control** Human fetal brain, heart and kidney lysates; HepG2 cells.

**General notes**

- **Our RabMAb® technology** is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

This product is a **recombinant rabbit monoclonal antibody**.

### Properties

<table>
<thead>
<tr>
<th><strong>Form</strong></th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Storage instructions</strong></td>
<td>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.</td>
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<tr>
<td><strong>Storage buffer</strong></td>
<td>Preservative: 0.01% Sodium azide. Constituents: 59% PBS, 40% Glycerol, 0.05% BSA</td>
</tr>
<tr>
<td><strong>Purity</strong></td>
<td>Protein A purified</td>
</tr>
<tr>
<td><strong>Clonality</strong></td>
<td>Monoclonal</td>
</tr>
<tr>
<td><strong>Clone number</strong></td>
<td>EPR15611</td>
</tr>
<tr>
<td><strong>Isotype</strong></td>
<td>IgG</td>
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### Applications

Our **Abpromise guarantee** covers the use of **ab186409** in the following tested applications.
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) 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

why is the actual band size different from the predicted?
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).

**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 *why is the actual band size different from the predicted?*
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.

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

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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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