


Product datasheet

Anti-DKK1 antibody ab93017

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Overview

<b>Product name</b>	Anti-DKK1 antibody
<b>Description</b>	Rabbit polyclonal to DKK1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat, Rabbit, Pig 
<b>Immunogen</b>	Synthetic peptide corresponding to Human DKK1 aa 150-250 conjugated to keyhole limpet haemocyanin. (Peptide available as <a href="#">ab101729</a> )
<b>Positive control</b>	Recombinant human DKK1 protein ( <a href="#">ab82115</a> ) can be used as a positive control in WB. This antibody gave a positive signal in the following whole cell lysates: HeLa; Saos 2; HepG2.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab93017** in the following tested applications.

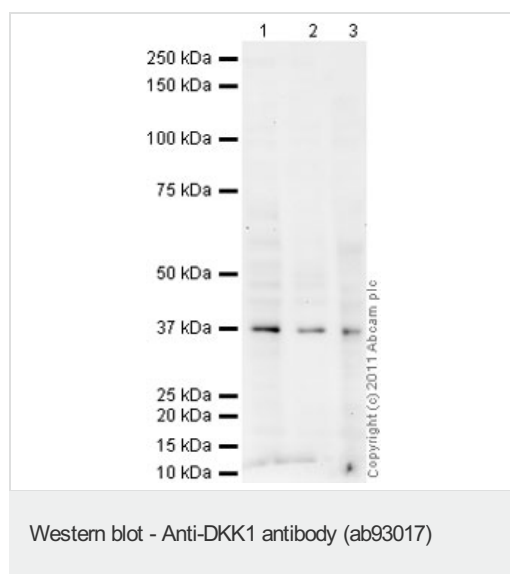
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 38 kDa (predicted molecular weight: 29 kDa).
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

## 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>	Placenta.
<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>Cellular localization</b>	Secreted.

## Images



**All lanes :** Anti-DKK1 antibody (ab93017) at 1 µg/ml

**Lane 1 :** PC3 whole cell lysate ([ab3954](#))

**Lane 2 :** MCF7 (Human breast adenocarcinoma cell line) Whole Cell Lysate

**Lane 3 :** MDA-MB-231 (Human breast adenocarcinoma cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

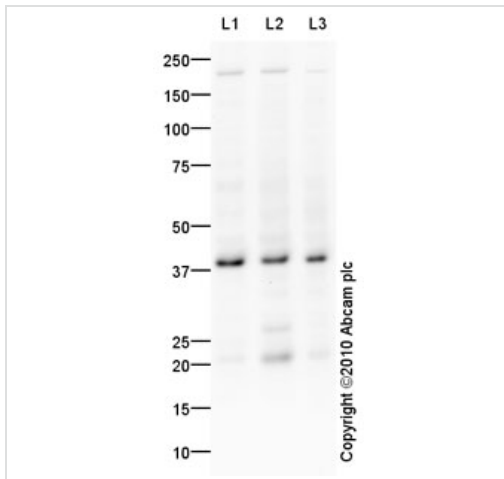
### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) preadsorbed ([ab97080](#)) at 1/5000 dilution

**Predicted band size:** 29 kDa

**Observed band size:** 38 kDa

[why is the actual band size different from the predicted?](#)



Western blot - Anti-DKK1 antibody (ab93017)

**All lanes** : Anti-DKK1 antibody (ab93017) at 1 µg/ml

**Lane 1** : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

**Lane 2** : Saos 2 (Human epithelial-like osteosarcoma cell line) Whole Cell Lysate

**Lane 3** : HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab97080) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

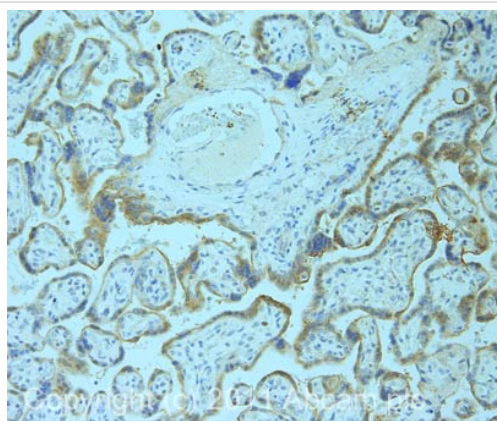
**Predicted band size:** 29 kDa

**Observed band size:** 38 kDa [why is the actual band size different from the predicted?](#)

**Additional bands at:** 200 kDa, 21 kDa, 29 kDa. We are unsure as to the identity of these extra bands.

**Exposure time:** 20 minutes

Please note that a band of similar size is reported in the literature (PMID 10383463).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DKK1 antibody (ab93017)

IHC image of DKK1 staining in human placenta formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab93017, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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

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