


Product datasheet

Anti-Frizzled 7 antibody ab51049

7 References 4 Images

Overview

<b>Product name</b>	Anti-Frizzled 7 antibody
<b>Description</b>	Rabbit polyclonal to Frizzled 7
<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, Guinea pig, Cow, Dog, Pig, Saccharomyces cerevisiae 

**Immunogen** A region within synthetic peptide: PDFTVFMIKY LMTMVGITT GFWIWSGKTL QSWRRFYHRL SHSSKGETAV, corresponding to amino acids 525-574 of Frizzled 7  
[Run BLAST with ExPASy](#) [Run BLAST with NCBI](#)

**General notes**

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

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 long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.09% Sodium azide Constituents: 2% Sucrose, PBS
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab51049** in the following tested applications.

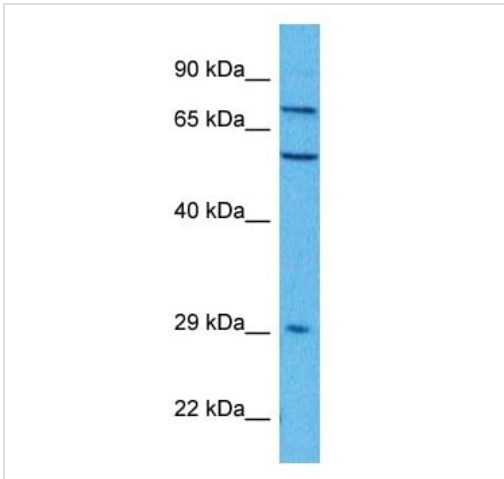
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.5 - 2 µg/ml. Detects a band of approximately 64 kDa (predicted molecular weight: 64 kDa).
IHC-P		Use a concentration of 4 - 8 µg/ml.

## Target

<b>Function</b>	Receptor for Wnt proteins. Most of frizzled receptors are coupled to the beta-catenin canonical signaling pathway, which leads to the activation of disheveled proteins, inhibition of GSK-3 kinase, nuclear accumulation of beta-catenin and activation of Wnt target genes. A second signaling pathway involving PKC and calcium fluxes has been seen for some family members, but it is not yet clear if it represents a distinct pathway or if it can be integrated in the canonical pathway, as PKC seems to be required for Wnt-mediated inactivation of GSK-3 kinase. Both pathways seem to involve interactions with G-proteins. May be involved in transduction and intercellular transmission of polarity information during tissue morphogenesis and/or in differentiated tissues.
<b>Tissue specificity</b>	High expression in adult skeletal muscle and fetal kidney, followed by fetal lung, adult heart, brain, and placenta. Specifically expressed in squamous cell esophageal carcinomas.
<b>Sequence similarities</b>	Belongs to the G-protein coupled receptor Fz/Smo family. Contains 1 FZ (frizzled) domain.
<b>Domain</b>	Lys-Thr-X-X-X-Trp motif is involved in the activation of the Wnt/beta-catenin signaling pathway. The FZ domain is involved in binding with Wnt ligands.
<b>Cellular localization</b>	Membrane.

## Images



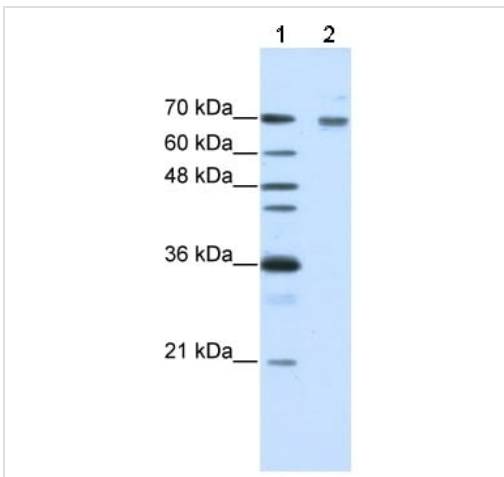
Western blot - Anti-Frizzled 7 antibody (ab51049)

Anti-Frizzled 7 antibody (ab51049) at 1 µg + A549

**Predicted band size:** 64 kDa

**Observed band size:** 62 kDa

why is the actual band size different from the predicted?



Western blot - Anti-Frizzled 7 antibody (ab51049)

**Lane 1 :** Marker

**Lane 2 :** Anti-Frizzled 7 antibody (ab51049) at 1 µg/ml

**Lane 2 :** HepG2 cell lysate at 10 µg with skim milk/ PBS at 5 %

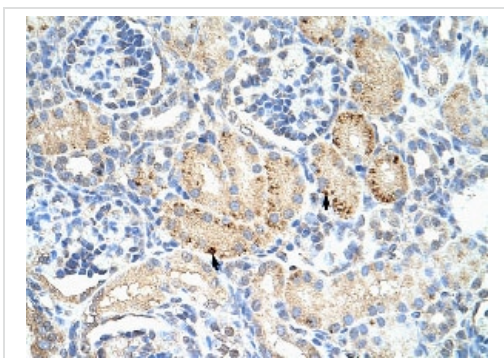
**Secondary**

**Lane 2 :** HRP conjugated anti-Rabbit IgG at 1/50000 dilution

**Predicted band size:** 64 kDa

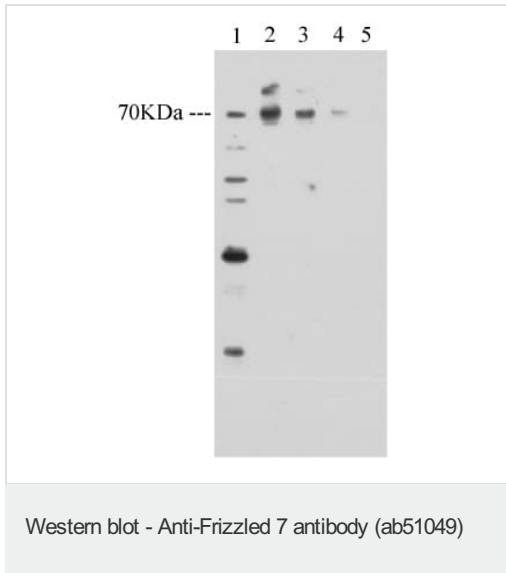
**Observed band size:** 64 kDa

Gel concentration: 12%



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Frizzled 7 antibody (ab51049)

ab51049 at 4.0 µg/ml staining epithelial cells of renal tubule from human kidney; paraffin embedded; magnification 400x.



**Lane 2 :** Anti-Frizzled 7 antibody (ab51049) at 2 µg/ml

**Lane 3 :** Anti-Frizzled 7 antibody (ab51049) at 1 µg/ml

**Lane 4 :** Anti-Frizzled 7 antibody (ab51049) at 0.5 µg/ml

**Lane 5 :** Anti-Frizzled 7 antibody (ab51049) at 0.25 µg/ml

**All lanes :** Cell lysate prepared from HepG2 cells

Lysates/proteins at 25 µg per lane.

**Predicted band size:** 64 kDa

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

### Our Abpromise to you: Quality guaranteed and expert technical support

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

### Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors