

Product datasheet

Anti-Dact1 / Dapper homolog 1 antibody ab42547

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Overview

Product name	Anti-Dact1 / Dapper homolog 1 antibody
Description	Rabbit polyclonal to Dact1 / Dapper homolog 1
Host species	Rabbit
Tested applications	Suitable for: IHC-P, ICC/IF, WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to Human Dact1/ Dapper homolog 1 aa 500-600 conjugated to keyhole limpet haemocyanin. (Peptide available as ab42546)
Positive control	This antibody gave a positive signal in Jurkat and A431 whole cell lysates and A431 cell line
General notes	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>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.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>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.</p> <p>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.</p> <p>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.</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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS
	Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab42547** in the following tested applications.

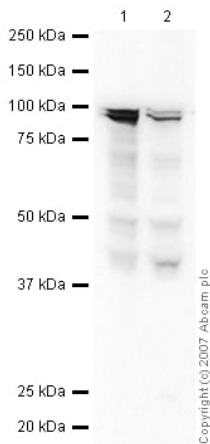
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ICC/IF		Use a concentration of 5 µg/ml.
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 90,98 kDa (predicted molecular weight: 90 kDa).

Target

Function	Positively regulates DVL2-mediated signaling pathways during development. Binds to DVL2 and impedes the degradation of CTNNB1/beta-catenin, thereby enhancing the transcriptional activation of target genes of the Wnt signaling pathway.
Sequence similarities	Belongs to the dapper family.
Domain	The C-terminal PDZ-binding motif mediates interaction with the PDZ domains of DSH (Dishevelled) family proteins.
Cellular localization	Cytoplasm. Nucleus.

Images



Western blot - Anti-Dact1 / Dapper homolog 1 antibody (ab42547)

All lanes : Anti-Dact1 / Dapper homolog 1 antibody (ab42547) at 1 $\mu\text{g/ml}$

Lane 1 : Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate

Lane 2 : A431 (Human epithelial carcinoma cell line) Whole Cell Lysate

Lysates/proteins at 10 μg per lane.

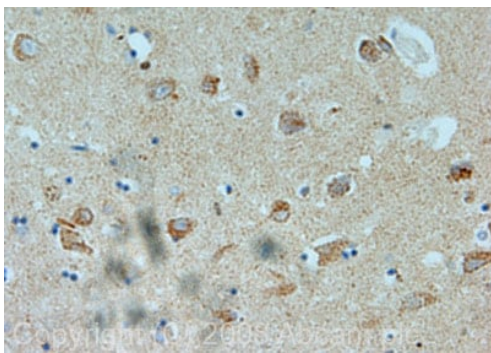
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 90 kDa

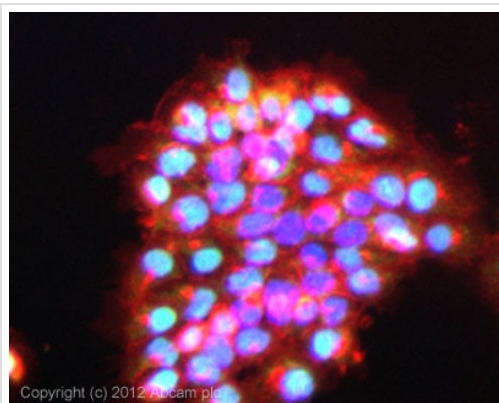
Observed band size: 90,98 kDa

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



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Dact1 / Dapper homolog 1 antibody (ab42547)

IHC image of Dact1/Dapper homolog 1 staining in human hippocampus FFPE section, performed on a BondTM 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 ab42547, 5 $\mu\text{g/ml}$, for 8 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.



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Immunocytochemistry/ Immunofluorescence - Anti-Dact1 / Dapper homolog 1 antibody (ab42547)

ICC/IF image of ab42547 stained A431 cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab42547, 5µg/ml) overnight at +4°C. The secondary antibody (green) was ab96899, DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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