




Product datasheet

Anti-KATNAL2 antibody ab184829

7 Images

Overview

Product name	Anti-KATNAL2 antibody
Description	Rabbit polyclonal to KATNAL2
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Recombinant fragment corresponding to Human KATNAL2 aa 178-261. Sequence: NAHPRRGQIIDFQGLLTDAIKGATSELALNTFDHNPDPSE LLKPLSAFI GMNSEMRELAAVVSRDIYLHNPNIKWNDIIGLDA Database link: Q8IYT4  Run BLAST with  Run BLAST with
Positive control	IHC-P: Human thyroid gland, testis, fallopian tube, cerebral cortex and skeletal muscle tissue; WB: A-549 and Caco-2 whole cell lysate; ICC: U-2 OS whole cells.
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</p>

ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

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: 7.20 Preservative: 0.02% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab184829** in the following tested applications.

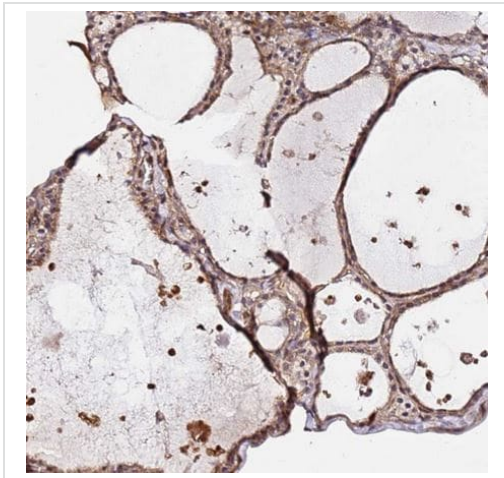
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.04 - 0.4 µg/ml. Predicted molecular weight: 61 kDa.
IHC-P		1/20 - 1/50. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		Use a concentration of 0.25 - 2 µg/ml. Fixation/Permeabilization: PFA/Triton X-100

Target

Function	Severs microtubules in vitro in an ATP-dependent manner. This activity may promote rapid reorganization of cellular microtubule arrays.
Sequence similarities	Belongs to the AAA ATPase family. Katanin p60 subunit A1 subfamily. A-like 2 sub-subfamily. Contains 1 LisH domain.
Cellular localization	Cytoplasm > cytoskeleton.

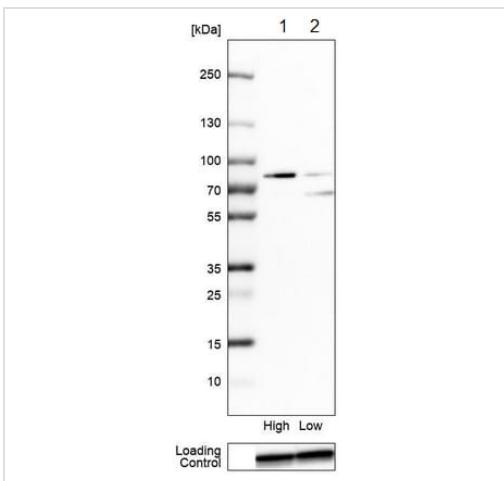
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KATNAL2 antibody (ab184829)

Immunohistochemical analysis of human thyroid gland labeling KATNAL2 in the cytoplasm of glandular cells with ab184829 at a 1/20 dilution.

Performed heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-KATNAL2 antibody (ab184829)

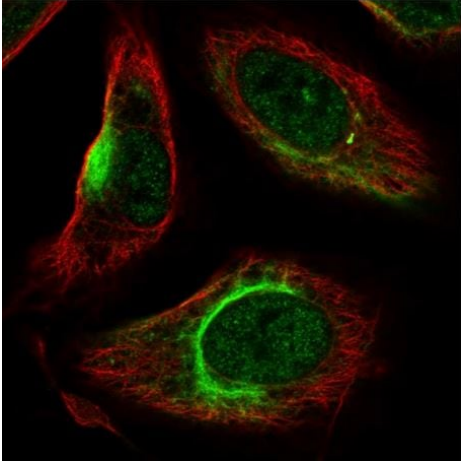
All lanes : Anti-KATNAL2 antibody (ab184829) at 0.4 µg/ml

Lane 1 : A549 (human lung carcinoma cell line) whole cell lysate

Lane 2 : Caco-2 (human colorectal adenocarcinoma cell line) whole cell lysate

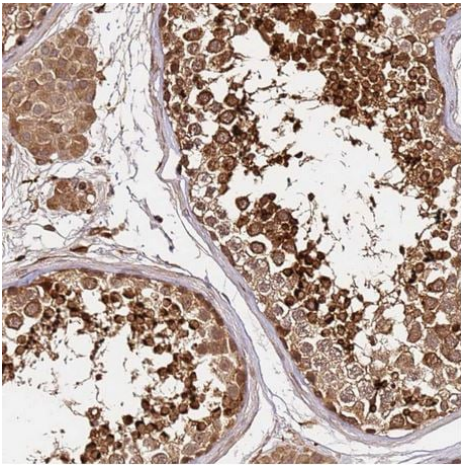
Predicted band size: 61 kDa

Corresponding KATNAL2 RNA-seq data are presented for the same cell lines. Loading control: Anti-GAPDH.



Immunocytochemistry/ Immunofluorescence - Anti-KATNAL2 antibody (ab184829)

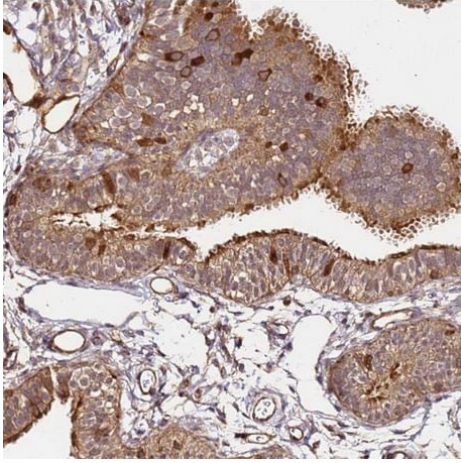
Immunofluorescence analysis of hU-2 OS (human bone osteosarcoma epithelial cell line) whole cells labeling KATNAL2 in the nucleoplasm and intermediate filaments with ab184829 at 2 $\mu\text{g/ml}$.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KATNAL2 antibody (ab184829)

Immunohistochemical analysis of human testis tissue labeling KATNAL2 in the cytoplasm and membrane of seminiferous ducts with ab184829 at a 1/20 dilution.

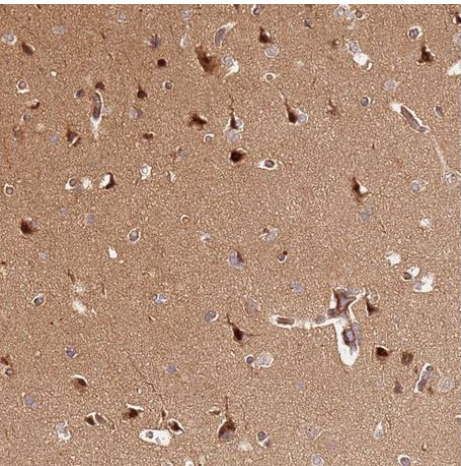
Performed heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KATNAL2 antibody (ab184829)

Immunohistochemical analysis of human fallopian tube tissue labeling KATNAL2 in the cytoplasm of glandular cells with ab184829 at a 1/20 dilution.

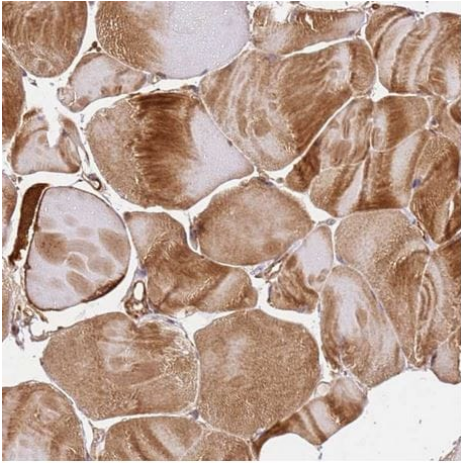
Performed heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KATNAL2 antibody (ab184829)

Immunohistochemical analysis of human cerebral cortex tissue labeling KATNAL2 in the cytoplasm of neurons with ab184829 at a 1/20 dilution.

Performed heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KATNAL2 antibody (ab184829)

Immunohistochemical analysis of human skeletal muscle tissue labeling KATNAL2 in the cytoplasm of myocytes with ab184829 at a 1/20 dilution.

Performed heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

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