abcam

Product datasheet

Anti-KIF5C antibody ab5630

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Overview

Product name	Anti-KIF5C antibody
Description	Rabbit polyclonal to KIF5C
Host species	Rabbit
Specificity	This antibody is specific for KIF5C and does not detect other kinesin isotypes.
Tested applications	**Suitable for:** IHC-P, WB
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide corresponding to Human KIF5C aa 938-957. Sequence: AVHAIRGGGGSSSNSTHYQK (Peptide available as **ab41784**) Run BLAST with Run BLAST with
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. 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, along with publications, 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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 99% PBS
Purity	Immunogen affinity purified
Primary antibody notes	Kinesins are a superfamily of microtubule-associated motor proteins involved in a variety of cellular processes including membranous organelle transport and cell division. Kinesin has been found in a variety of organisms and cell types and is subject to spatial and temporal regulation.

These proteins have a modular structure including a conserved motor domain of approximately 350 amino acids, which is responsible for microtubule binding and ATP hydrolysis. In addition to the motor domain, subfamily members share common domain organization, exhibit sequence similarity, motility properties, and cellular functions outside of the motor domain. There are currently three known Kinesin 5 family members denoted as A, B, and C. Kinesin 5A and kinesin 5C appear to be exclusively neuronal, whereas kinesin 5B appears to be ubiquitous in its expression.

Clonality Polyclonal

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab5630 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 1 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB	★★★★★ **(4)**	Use a concentration of 0.5 µg/ml. Detects a band of approximately 110 kDa (predicted molecular weight: 110 kDa).

Target

Function Kinesin is a microtubule-associated force-producing protein that may play a role in organelle transport.

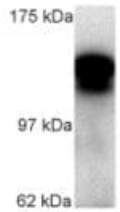
Tissue specificity Highest expression in brain, prostate and testis, and moderate expression in kidney, small intestine and ovary.

Sequence similarities Belongs to the kinesin-like protein family. Kinesin subfamily.
Contains 1 kinesin-motor domain.

Domain Composed of three structural domains: a large globular N-terminal domain which is responsible for the motor activity of kinesin (it hydrolyzes ATP and binds microtubule), a central alpha-helical coiled coil domain that mediates the heavy chain dimerization; and a small globular C-terminal domain which interacts with other proteins (such as the kinesin light chains), vesicles and membranous organelles.

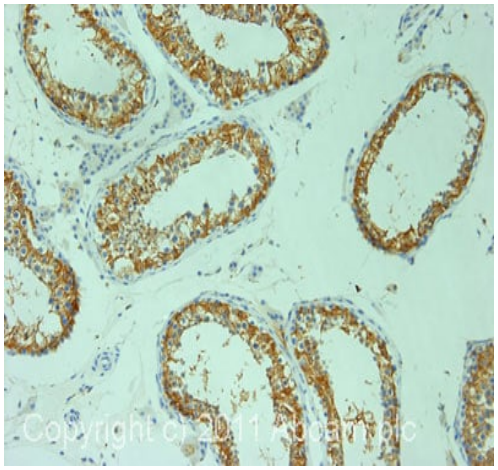
Cellular localization Cytoplasm > cytoskeleton.

Images



Western blot - Anti-KIF5C antibody (ab5630)

Shows a Western blot of KIF5C on human retinal extract using ab5630. The expected band at 110 kDa is seen along with an unidentified band at 100 kDa.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KIF5C antibody (ab5630)

IHC image of ab5630 staining in human normal testis 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 ab5630, 1µg/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.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

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