abcam

Product datasheet

Anti-KIF5A antibody ab118534

2 References 3 Images

Overview

Product name Anti-KIF5A antibody

Description Rabbit polyclonal to KIF5A

Host species Rabbit

Tested applications Suitable for: WB, IHC-P, ICC

Species reactivity Reacts with: Human

Predicted to work with: Mouse, Rat

Immunogen Synthetic peptide corresponding to Human KIF5A (internal sequence) conjugated to keyhole

limpet haemocyanin.

Database link: NP_004975.2

Positive control Human Brain, cortex tissue; K562 cell lysate; K562 cells.

General notesThe 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 long

term.

Storage buffer pH: 7.4

Preservative: 0.02% Sodium azide

Constituent: 99% PBS

Purity Protein A purified

Clonality Polyclonal

Isotype IgG

1

Applications

The Abpromise guarantee

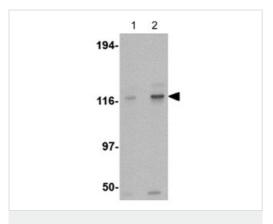
Our <u>Abpromise guarantee</u> covers the use of ab118534 in the following tested applications.

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 - 1 µg/ml. Predicted molecular weight: 117 kDa.
IHC-P		Use a concentration of 5 μ g/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC		Use a concentration of 5 µg/ml.

Target	
Function	Microtubule-dependent motor required for slow axonal transport of neurofilament proteins (NFH, NFM and NFL).
Tissue specificity	Distributed throughout the CNS but is highly enriched in subsets of neurons.
Involvement in disease	Defects in KIF5A are the cause of spastic paraplegia autosomal dominant type 10 (SPG10) [MIM:604187]. An inherited degenerative spinal cord disorder characterized by a slow, gradual, progressive weakness and spasticity (stiffness) of the legs. Rate of progression and the severity of symptoms is quite variable. Initial symptoms may include difficulty with balance, weakness and stiffness in the legs, muscle spasms, and dragging the toes when walking. In some forms of the disorder, bladder symptoms (such as incontinence) may appear, or the weakness and stiffness may spread to other parts of the body.
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 > perinuclear region. Cytoplasm > cytoskeleton. Concentrated in the cell body of the neurons, particularly in the perinuclear region.

Images



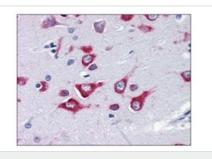
Western blot - Anti-KIF5A antibody (ab118534)

Lane 1: Anti-KIF5A antibody (ab118534) at 0.5 µg/ml

Lane 2: Anti-KIF5A antibody (ab118534) at 1 µg/ml

All lanes: K562 cell lysate

Predicted band size: 117 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-KIF5A antibody (ab118534)

Human Brain, Cortex tissue (formalin-fixed, paraffin-embedded) stained with ab118534 at 5 μ g/ml followed by biotinylated goat antirabbit lgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.



Immunocytochemistry - Anti-KIF5A antibody (ab118534)

Immunocytochemical analysis of KIF5A expression in K562 cells using ab118534 at 5 μ g/ml.

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

- 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