

Product datasheet

Anti-KIF5B antibody ab91033

[2 Images](#)

Overview

Product name	Anti-KIF5B antibody
Description	Rabbit polyclonal to KIF5B
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide corresponding to Human KIF5B aa 350-450 conjugated to Keyhole Limpet Haemocyanin (KLH). Database link: P33176 (Peptide available as ab100817)
Positive control	This antibody gave a positive signal in the following lysates: HeLa Whole Cell; HepG2 Whole Cell; HEK293 Whole Cell; Jurkat Whole Cell; Human Brain Tissue; Mouse Brain Tissue; Rat Brain Tissue.

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: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab91033** in the following tested applications.

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

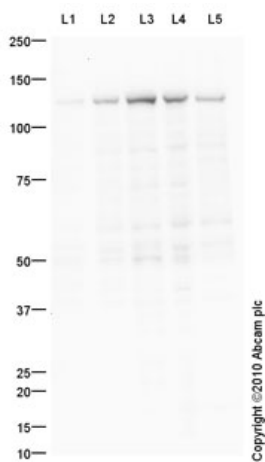
Application	Abreviews	Notes
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Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 125 kDa (predicted molecular weight: 110 kDa).

Target

Function	Microtubule-dependent motor required for normal distribution of mitochondria and lysosomes.
Sequence similarities	Belongs to the TRAFAC class myosin-kinesin ATPase superfamily. Kinesin 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. Uniformly distributed between soma and neurites in hippocampal neurons.

Images



Western blot - Anti-KIF5B antibody (ab91033)

All lanes : Anti-KIF5B antibody (ab91033)

Lane 1 : Human brain tissue lysate - total protein ([ab29466](#))

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

Lane 3 : HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate

Lane 4 : HEK293 (Human embryonic kidney cell line) Whole Cell Lysate

Lane 5 : Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed ([ab97080](#)) at 1/5000 dilution

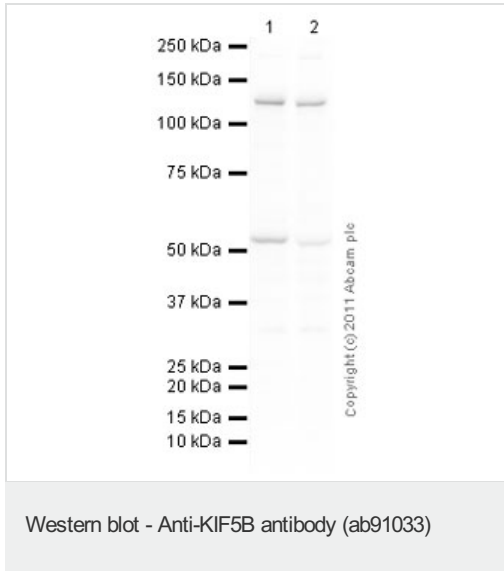
Developed using the ECL technique

Performed under reducing conditions.

Predicted band size : 110 kDa

Observed band size : 125 kDa

Exposure time : 3 minutes The 125 kDa band is consistent with our other antibodies against Kinesin 5B (for example, [ab15705](#), [ab97762](#) and [ab5629](#)). Abcam welcomes customer feedback.



All lanes : Anti-KIF5B antibody (ab91033) at 1 µg/ml

Lane 1 : Brain (Mouse) Tissue Lysate

Lane 2 : Brain (Rat) Tissue Lysate

Lysates/proteins at 10 µg per lane.

Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab97080) at 1/5000 dilution

Developed using the ECL technique

Performed under reducing conditions.

Predicted band size : 110 kDa

Observed band size : 125 kDa

Additional bands at : 52 kDa. We are unsure as to the identity of these extra bands.

Exposure time : 1 minute

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