

Datasheet: VPA00053KT

Description:	KINESIN HEAVY CHAIN ANTIBODY WITH CONTROL LYSATE
Specificity:	KINESIN HEAVY CHAIN
Format:	Purified
Product Type:	PrecisionAb Polyclonal
Isotype:	Polyclonal IgG
Quantity:	2 Westerns

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/1000

PrecisionAb antibodies have been extensively [validated for the western blot application](#). The antibody has been validated at the suggested dilution. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependant on sample type.

Target Species

Human

Species Cross Reactivity

Reacts with: Mouse, Rat

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

20µl Goat polyclonal antibody purified by affinity chromatography

Buffer Solution

TRIS buffered saline

Preservative Stabilisers

0.02% Sodium Azide (NaN₃)
0.5% Bovine Serum Albumin

Immunogen

Peptide sequence C-QPVAVRGGGGKQV from the C-terminal region of kinesin heavy

chain.

External Database**Links****UniProt:**[P33176](#)[Related reagents](#)**Entrez Gene:**[3799](#)

KIF5B

[Related reagents](#)

Synonyms

KNS, KNS1

Specificity

Goat anti Human kinesin heavy chain antibody recognizes the heavy chain of human kinesin, also known as kinesin-1 heavy chain, conventional kinesin heavy chain, ubiquitous kinesin heavy chain or KIF5B.

Kinesin heavy chain is a 963 amino acid microtubule dependent motor protein. This protein is a member of the kinesin-like protein family and principal component of kinesin, involved in the plus end-directed transport of eukaryotic cell vesicles and organelles.

Kinesins are microtubule associated motor proteins which consist of 2 identical (60-70 kDa) light chains and 2 identical (110-120 kDa) heavy chains, the latter of which contain a globular C-terminal tail domain, a central alpha helical rod domain and a globular N-terminal motor domain with microtubule-stimulated ATPase activity.

Goat anti Human kinesin heavy chain antibody recognizes kinesin heavy chain as a band of 110 kDa in a wide range of human cell line lysates. Cross reactivity with rodent cell lines is also observed.

Western Blotting

Goat anti kinesin heavy chain detects a band of approximately 110 kDa in HEK293 cell lysates.

Instructions For Use

Please refer to the [PrecisionAb western blotting protocol](#). For additional information on secondary antibody dilution and exposure time see product web page.

Lysate Composition

400µg HEK293 lysate lyophilized in RIPA buffer.

Lysate Reconstitution

- If using DDT reconstitute the lyophilized lysate with 190µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.

- If using BME reconstitute the lyophilized lysate with 180µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 20µl BME.

Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.

Storage

Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.

Guarantee As supplied, 12 months from date of despatch.

Acknowledgements PrecisionAb™ is a trademark of Bio-Rad Laboratories.

Health And Safety Information Material Safety Datasheet documentation #10058 #10561 available at:
Antibody (10058): <https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf>
Lysate Material (10561): <https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [HRP](#)

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