

Datasheet: VPA00053

Description:	GOAT ANTI KINESIN HEAVY CHAIN
Specificity:	KINESIN HEAVY CHAIN
Format:	Purified
Product Type:	PrecisionAb Polyclonal
Isotype:	Polyclonal IgG
Quantity:	100 µl

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
Flow Cytometry		▪		
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			
ELISA	▪			
Immunoprecipitation	▪			
Western Blotting	▪			1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing [antibody validation programme](#).

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 dependent on sample type.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

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	Goat polyclonal antibody purified by affinity chromatography.

Buffer Solution	TRIS buffered saline.
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃) 0.5% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml.
Immunogen	Peptide sequence C-QPVAVRGGGGKQV from the C-terminal region of kinesin heavy chain.
External Database Links	<p>UniProt: P33176 Related reagents</p> <p>Entrez Gene: 3799 KIF5B Related reagents</p>
Synonyms	KNS, KNS1
Specificity	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>
Western Blotting	Goat anti kinesin heavy chain detects a band of approximately 110 kDa in HEK293 cell lysates.
Further Reading	1. Navone, F. <i>et al.</i> (1992) Cloning and expression of a human kinesin heavy chain gene: interaction of the COOH-terminal domain with cytoplasmic microtubules in transfected CV-1 cells. J Cell Biol. 117 (6): 1263-75.
Storage	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
Guarantee	12 months from date of despatch.

Acknowledgements PrecisionAb is a trademark of Bio-Rad Laboratories.

Health And Safety Information Material Safety Datasheet documentation #10058 available at:
<https://www.bio-rad-antibodies.com/SDS/VPA00053>
Antibody (10058)

Regulatory For research purposes only.

Related Products

Recommended Secondary Antibodies

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

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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