

Datasheet: OBT1670

BATCH NUMBER 170117

Description:	MOUSE ANTI KINESIN HEAVY CHAIN
Specificity:	KINESIN HEAVY CHAIN
Other names:	KIF5B
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	H2
Isotype:	IgG2b
Quantity:	0.1 mg

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	▪			
ELISA	▪			
Immunoprecipitation	▪			
Western Blotting	▪			1/500
Immunoblotting	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Bovine
Species Cross Reactivity	Based on sequence similarity, is expected to react with: Mammals, Chicken, Invertebrates 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

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Bovine brain kinesin.
RRID	AB_2132375
Specificity	<p>Mouse anti Kinesin Heavy Chain antibody, clone H2 recognises the heavy chain of kinesin toward the N-terminus. The epitope is located in the region of amino acids 420-445.</p> <p>Kinesins are microtubule associated motor proteins, responsible for converting nucleoside triphosphate released energy into mechanical energy. Kinesin-1 exists as a homodimer of 120-130 kDa chains, known as heavy chains. Associated with this dimer when purified from brain homogenates are light chains of 60-70 kDa. The light chains are involved in binding of kinesin to organelles and appear to have regulatory functions. They are not essential for motility generation.</p>
References	<p>1. Pfister, K.K. <i>et al.</i> (1989) Monoclonal antibodies to kinesin heavy and light chains stain vesicle-like structures, but not microtubules, in cultured cells. J Cell Biol. 108 (4): 1453-63.</p> <p>2. Kamm, C. <i>et al.</i> (2004) The early onset dystonia protein torsinA interacts with kinesin light chain 1. J Biol Chem. 279 (19): 19882-92.</p>
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	<p>Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/OBT1670</p> <p>10040</p>
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

- Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
- Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)
- Goat Anti Mouse IgG (STAR76...) [RPE](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@550](#),
[DyLight@650](#), [DyLight@680](#), [DyLight@800](#),
[FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [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

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