

Datasheet: OBT1670

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.
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.

Specificity	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. 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.
References	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. 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.
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. 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.
Shelf Life	12 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation available at: Material Safety Datasheet Documentation #10303 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10303.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG2b (HCA038...)	FITC , HRP

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

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