Datasheet: OBT1671

Description:	MOUSE ANTI KINESIN LIGHT CHAIN
Specificity:	KINESIN LIGHT CHAIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	L2
Isotype:	IgG2a
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
Immunohistology - Frozen			▪	
Immunohistology - Paraffin		▪		
ELISA	▪			
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
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.

External Database Links

UniProt:

O88447 Related reagents
P37285 Related reagents

	Entrez Gene: 16593 Klc1 Related reagents 171041 Klc1 Related reagents
Synonyms	Klc, Kns2
Specificity	**Mouse anti Bovine Kinesin light chain antibody, clone L2** recognises an epitope towards the c-terminal end of the light chain of kinesin. 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. *et al.* (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.
Further Reading	1. Bohm KJ, *et al.* (2003) Motor proteins and kinesin-based nanoactuatoric devices. Tsitol Genet. 37:11-21. Review. 2. Marx A, *et al.* (2005) The structure of microtubule motor proteins. Adv Protein Chem. 71:299-344. Review.
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

Human Anti Mouse IgG2a (HCA037...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP

Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL (MCA929)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	**Worldwide**	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	**Europe**	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

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