Datasheet: HCA091A

Description:	HUMAN ANTI Caspr1
Specificity:	Caspr1
Other names:	CONTACTIN-ASSOCIATED PROTEIN 1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	6152
Isotype:	HuCAL Fab bivalent
Quantity:	50 µg

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	▪			1/100 - 1/500

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

Rat

Species Cross Reactivity

Reacts with: Mouse
Based on sequence similarity, is expected to react with:Human
N.B. Antibody reactivity and working conditions may vary between species.

Product Form

A bivalent human recombinant Fab selected from the HuCAL® GOLD phage display library, expressed in *E. coli.* This Fab fragment is dimerized via a helix-turn-helix motif. The antibody is tagged with a myc-tag (EQKLISEEDL) and a his-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied lyophilised.

Reconstitution

Reconstitute with 0.5ml distilled water

Preparation

metal chelate affinity chromatography

Buffer Solution

Phosphate buffered saline

Preservative

0.09% Sodium Azide (NaN_3)

Stabilisers	1% Bovine Serum Albumin
Approx. Protein Concentrations	Total protein concentration 0.1mg/ml
Immunogen	Fusion protein corresponding to the C-terminal region of rat Caspr1.
External Database Links	**UniProt:** P97846 Related reagents O54991 Related reagents **Entrez Gene:** 84008 Cntnap1 Related reagents 53321 Cntnap1 Related reagents
Synonyms	Caspr, Nrxn4
Specificity	**Human anti Caspr1 antibody, clone 6152** recognizes rat contactin-associated protein 1 (Caspr1), also known as neurexin 4 and paranodin, a ~190 kDa axonal transmembrane molecule. Caspr1 is a primarily expressed in myelinated nerves of the central and peripheral nervous system. It is a constituent of paranodal regions flanking the nodes of Ranvier and is believed to play an important role in paranodal junction formation.
ELISA	Due to the presence of bovine serum albumin (BSA), this antibody is unsuitable for use as a capture reagent in sandwich ELISA applications. This product is also available without BSA, please enquire.
Histology Positive Control Tissue	Mouse brain
Western Blotting	HCA091A detects a band of approximately 190kDa in mouse brain cell lysates.
References	1. Çolakoğlu, G. *et al*. (2014) Contactin-1 regulates myelination and nodal/paranodal domain organization in the central nervous system. Proc Natl Acad Sci USA. Jan 2.
Storage	Prior to reconstitution store at +4°C. After reconstitution 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 reconstitution.
Acknowledgements	Sold under license of U.S. Patents 6753136, 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad, Zeppelinstr. 4, 82178 Puchheim, Germany.
Health And Safety Information	Material Safety Datasheet documentation available at: Material Safety Datasheet Documentation #10041 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
Licensed Use	For in vitro research purposes only, unless otherwise specified in writing by Bio-Rad.

Regulatory	For research purposes only
Technical Advice	Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the HuCAL Antibodies Technical Manual

Related Products

Recommended Secondary Antibodies

Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA5995...)	HRP
Mouse Anti Human C-MYC (MCA2200...)	ALEXA FLUOR® 488, ALEXA FLUOR® 647, Alk. Phos., Biotin, FITC, HRP
Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA1396...)	ALEXA FLUOR® 488, ALEXA FLUOR® 647, Biotin, FITC

Recommended Useful Reagents

HISTAR DETECTION SYSTEM (STAR3000B)
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