

Datasheet: VMA00265

Description:	MOUSE ANTI CD171
Specificity:	CD171
Format:	Purified
Product Type:	PrecisionAb™ Monoclonal
Clone:	OT12G9
Isotype:	IgG1
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
Western Blotting	▪			1/1000

PrecisionAb antibodies have been extensively [validated for the western blot application](#). The antibody has been validated at the suggested dilution. 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 dependant on sample type.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Mouse monoclonal antibody purified by affinity chromatography from ascites
Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide (NaN ₃)
Stabilisers	1% Bovine Serum Albumin 50% Glycerol
Immunogen	Full length recombinant human CD171 (NP_000416) produced in HEK293T cells
External Database Links	<p>UniProt: P32004 Related reagents</p> <p>Entrez Gene: 3897 L1CAM Related reagents</p>
Synonyms	CAML1, MIC5

Specificity **Mouse anti Human CD171 antibody** recognizes the CD171 antigen, also known as neural cell adhesion molecule L1, antigen identified by monoclonal antibody R1 and neural cell adhesion molecule L1.

Encoded by L1CAM gene, CD171 is an axonal glycoprotein belonging to the immunoglobulin supergene family. The ectodomain, consisting of several immunoglobulin-like domains and fibronectin-like repeats (type III), is linked via a single transmembrane sequence to a conserved cytoplasmic domain. This cell adhesion molecule plays an important role in nervous system development, including neuronal migration and differentiation. Mutations in the gene cause X-linked neurological syndromes known as CRASH (corpus callosum hypoplasia, retardation, aphasia, spastic paraplegia and hydrocephalus). Alternative splicing of L1CAM results in multiple transcript variants, some of which include an alternate exon that is considered to be specific to neurons (provided by RefSeq, May 2013).

Mouse anti Human CD171 antibody detects a band of 220-240 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

Western Blotting Anti CD171 detects a band of approximately 220-240 kDa in HeLa cell lysates

Instructions For Use Please refer to the [PrecisionAb western blotting protocol](#). For additional information on secondary antibody dilution and exposure time see product web page.

Storage Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

Shelf Life As supplied, 12 months from date of despatch.

Acknowledgements PrecisionAb™ is a trademark of Bio-Rad Laboratories.

Health And Safety Information Material Safety Datasheet documentation #10048 available at: Antibody (10048): <https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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Printed on 01 May 2018