

Datasheet: VMA00034

Description:	MOUSE ANTI CD44
Specificity:	CD44
Other names:	H-CAM, PGP-1
Format:	Purified
Product Type:	PrecisionAb™ Monoclonal
Isotype:	IgG2a
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 on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Immunogen	Stimulated human leucocytes
External Database Links	UniProt: P16070 Related reagents Entrez Gene: 960 CD44 Related reagents
Synonyms	LHR, MDU2, MDU3, MIC4

Specificity

Mouse anti Human CD44 antibody recognizes human CD44, a 742 amino acid, type I transmembrane protein which is otherwise known as HCAM, epican or CD44s. Multiple isoforms of CD44 exist, generated by alternative splicing within a single variable extracellular domain ([Jackson et al. 1992](#)). The standard form of CD44, recognized by Mouse anti Human CD44 antibody, is expressed on leucocytes, erythrocytes, white matter of the brain and some epithelial cells of the breast and small intestine. Mouse anti Human antibody binds to a protease resistant epitope on the CD44 molecule.

CD44 is a receptor for hyaluronic acid (HA) and is involved in cell-cell interactions, cell adhesion and migration. CD44 also participates in a wide variety of cellular functions including lymphocyte activation, recirculation and homing. CD44 expression may be up-regulated upon some carcinomas, and it has been speculated that this may be related to metastatic potential ([Hofmann et al. 1991](#)).

Mouse anti Human CD44 antibody recognizes the standard CD44 isoform lacking any of the variable region exon products as a ~82 kDa band in HeLa cell line lysates by western blotting under reducing conditions. In addition, Mouse anti Human CD44 antibody will recognize all higher molecular weight forms of CD44 containing one or more of the variable region exon products.

Western Blotting

Anti CD44 antibody detects a band of approximately 82 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 #10040 available at:
Antibody (10040): <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

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