

Datasheet: VMA00034

Description:	MOUSE ANTI CD44
Specificity:	CD44
Other names:	H-CAM, PGP-1
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	156-3C11
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
Immunoprecipitation	▪			
Western Blotting	▪			1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. 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 dependent 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)
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml

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.

Storage

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

Guarantee

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)

North & South Tel: +1 800 265 7376

America 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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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