

Datasheet: VMA00683

BATCH NUMBER 100004119

Description:	MOUSE ANTI hnRNP U
Specificity:	HNRNP U
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	AB01/4D10
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 - 1/2000

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 affinity purified on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	<i>E. coli</i> -derived recombinant protein of amino acids 371-825 of human hnRNP U

**External Database
Links**

UniProt:

[Q00839](#) [Related reagents](#)

Entrez Gene:

[3192](#) HNRNPU [Related reagents](#)

Synonyms

HNRNPU, SAFA, U21.1

Fusion Partners

Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line

Specificity

Mouse anti Human hnRNP U antibody recognizes the heterogeneous nuclear ribonucleoprotein U, also known as p120 nuclear protein, scaffold attachment factor A and SAFA.

The heterogeneous nuclear ribonucleoproteins (hnRNPs) are a ubiquitously-expressed family of RNA-binding proteins that contribute to alternative splicing, mRNA stabilization, and regulation of transcription and translation. hnRNP U is the largest member of the hnRNP family, and is predominantly found in the nucleus where it binds to pre-mRNA and single-stranded DNA and is involved with transcription and alternative splicing (Geuens et al. 2016). hnRNP U is required for cell viability, with a hypomorphic mutation causing early embryonic lethality in mice (Roshon and Ruley 2005). Epigenetic inactivation of one of the two female X chromosomes, equalizing gene expression with male mammals, also depends on hnRNP U activity (Hasegawa et al. 2010).

Western Blotting

Mouse anti hnRNP U detects a band of approximately 123 kDa in HeLa cell lysates

Storage

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

Guarantee

12 months from date of despatch

Acknowledgements

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**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
<https://www.bio-rad-antibodies.com/SDS/VMA00683>
Antibody (10040)

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

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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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