

Datasheet: VMA00877

Description:	MOUSE ANTI KARS
Specificity:	KARS
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	AB01/3F8
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
Flow Cytometry	▪			
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
Species Cross Reactivity	Reacts with: Mouse, Rat N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.
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 1-597 of human KARS
External Database Links	<p>UniProt: Q15046 Related reagents</p> <p>Entrez Gene: 3735 KARS Related reagents</p>
Synonyms	KIAA0070
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
Specificity	<p>Mouse anti KARS antibody recognizes lysine--tRNA ligase, also known as lysyl-tRNA synthetase and LysRS.</p> <p>tRNA synthetases are responsible for setting the genetic code during the first step of protein synthesis by specifically linking a single amino acid to a set of tRNA isoacceptors (Pang et al. 2014). The KARS gene encodes lysyl-tRNA synthetase, which catalyzes the attachment of a specific amino acid to its cognate tRNA in both the cytoplasm and mitochondria (Ardissone et al. 2018). Mutations in KARS have been associated with various pathologies including autosomal recessive nonsyndromic hearing loss, congenital visual impairment and progressive microcephaly (Verrigni et al. 2017).</p>
Western Blotting	Mouse anti KARS antibody detects a band of approximately 74 kDa in HEK293 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: https://www.bio-rad-antibodies.com/SDS/VMA00877 Antibody (10040)
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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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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