

Datasheet: VMA00970

BATCH NUMBER 100005794

Description:	MOUSE ANTI SERPINH1
Specificity:	SERPINH1
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	AB01/3C1
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

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	<p>Reacts with: Mouse</p> <p>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.</p>
Product Form	Purified IgG - Liquid
Preparation	Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide

Stabilisers

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	<i>E. coli</i> -derived recombinant protein of amino acids 19-418 of human SERPINH1
External Database Links	UniProt: P50454 Related reagents Entrez Gene: 871 SERPINH1 Related reagents
Synonyms	CBP1, CBP2, HSP47, SERPINH2
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
Specificity	Mouse anti SERPINH1 antibody recognizes serpin H1, also known as HSP47, AsTP3 and colligin. SERPINH1 is a member of the serpin superfamily of protease inhibitors, critical for control of many proteolytic cascades including the coagulation cascade in mammals (Law et al. 2006). SERPINH1 is a key regulator of collagen synthesis. It is essential for appropriate folding of pro-collagen in the endoplasmic reticulum, and by association is involved with embryonic development (Kumar et al. 2017). SERPINH1 and has been implicated in collagen-related diseases including brittle bone disease, keloid scars and lung fibrosis (Tian et al. 2020). SERPINH1 is highly expressed in a range of cancers including pancreatic cancer, glioma, and clear cell renal cell carcinoma, and can drive malignant behaviour of cancer cells (Qi et al. 2018).
Western Blotting	Mouse anti SERPINH1 detects a band of approximately 44 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: https://www.bio-rad-antibodies.com/SDS/VMA00970 Antibody (10040)
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

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

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