

Datasheet: VMA00930

BATCH NUMBER 100005653

Description:	MOUSE ANTI GSTO1
Specificity:	GSTO1
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	AB01/1C5
Isotype:	IgG2b
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
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 1-241 of human GSTO1

**External Database
Links**

UniProt:

[P78417](#) [Related reagents](#)

Entrez Gene:

[9446](#) GSTO1 [Related reagents](#)

Synonyms

GSTTLP28

Fusion Partners

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

Specificity

Mouse anti GSTO1 antibody recognizes glutathione S-transferase omega-1, also known as GSTO1-1, MMA(V) reductase and SPG-R.

GSTO1 is an Omega class member of the cytosolic glutathione transferase (GST) superfamily, and is able to catalyze several redox reactions ([Board et al. 2000](#)), contributing to regulation of inflammation and oxidative stress in a variety of organ systems ([Fernando et al. 2018](#)). In response to LPS, GSTO1 has a pro-inflammatory role in models of inflammation, colitis and obesity ([Menon et al. 2017](#)), and has been suggested as a target for anti-inflammatory intervention ([Menon et al. 2014](#)). A critical role of GSTO1 in maintaining the phenotype of breast cancer stem cells has been identified ([Lu et al. 2017](#)), and specific polymorphisms are associated with response to bladder cancer treatment ([Deng et al. 2015](#)).

Western Blotting

Mouse anti GSTO1 detects a band of approximately 27 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/VMA00930>
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](https://www.bio-rad-antibodies.com/datasheets)

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