

Datasheet: VMA00755

Description:	MOUSE ANTI STAT3 (pSer727)
Specificity:	STAT3 (pSer727)
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	23G5
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

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 thiophilic adsorption and size exclusion chromatography from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide
Stabilisers	PEG & Sucrose
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml
Immunogen	Phosphopeptide conjugated to KLH

**External Database
Links**

UniProt:

[P40763](#) [Related reagents](#)

Entrez Gene:

[6774](#) STAT3 [Related reagents](#)

Synonyms

APRF

Specificity

Mouse anti STAT3 antibody recognizes signal transducer and activator of transcription 3, also known as DNA-binding protein APRF, acute-phase response factor and signal transducer and activator of transcription 3, when phosphorylated at serine 727. STAT3 is a member of the STAT family of transcription factors, which play a key role in numerous processes including cell differentiation, proliferation and transformation. Serine 727 is a key STAT3 phosphorylation site. Ser727 is phosphorylated by multiple kinases including mitogen-activated kinases (MAPK), mammalian target of rapamycin kinase (mTOR), cyclin-dependent kinase 5 (CDK5) and nemo-like kinase ([Wakahara et al. 2012](#)). There is an ongoing debate in the scientific literature around the impact of the phosphorylation at serine 727 ([Wakahara et al. 2012](#)). Some reports indicate that the transcriptional activity of STAT3 coincides with phosphorylation at serine 727 ([Yokogami et al. 2000](#)). Other reports show STAT3 activation independent of serine 727 ([Wakahara et al. 2012](#)). The role of serine 727 is likely dependent on the larger cellular context.

Western Blotting

Mouse anti STAT3 (pSer727) detects a band of approximately 84 kDa in HepG2 + EGF (treated lysate) 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 #20403 available at:
<https://www.bio-rad-antibodies.com/SDS/VMA00755>
Antibody (20403)

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 \(MCA928\)](#)

**North & South
America**

Tel: +1 800 265 7376

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

'M378840:210308'

Printed on 18 Jan 2024

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