

Datasheet: VMA00980

**BATCH NUMBER 64726708**

|                      |                        |
|----------------------|------------------------|
| <b>Description:</b>  | MOUSE ANTI STAT1       |
| <b>Specificity:</b>  | STAT1                  |
| <b>Format:</b>       | Purified               |
| <b>Product Type:</b> | PrecisionAb Monoclonal |
| <b>Clone:</b>        | P02-5B7                |
| <b>Isotype:</b>      | IgG1                   |
| <b>Quantity:</b>     | 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](http://www.bio-rad-antibodies.com/protocols).

|                    | Yes | No | Not Determined | Suggested Dilution |
|--------------------|-----|----|----------------|--------------------|
| Western Blotting   | ▪   |    |                | 1/5000             |
| Immunofluorescence | ▪   |    |                |                    |

**The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Learn about [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.

|                                       |  |
|---------------------------------------|--|
| <b>Target Species</b>                 | Human  |
| <b>Product Form</b>                   | Purified IgG - liquid  |
| <b>Preparation</b>                    | Mouse monoclonal antibody purified by affinity chromatography on Protein G from tissue culture supernatant |
| <b>Buffer Solution</b>                | Phosphate buffered saline  |
| <b>Preservative Stabilisers</b>       | 0.09% Sodium Azide (NaN <sub>3</sub> )   |
| <b>Approx. Protein Concentrations</b> | IgG concentration 1.0 mg/ml  |
| <b>Immunogen</b>                      | Peptide, aa 689-710 (EPMELDGPKGTYIKTELISVS) of human STAT1   |

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**External Database****Links****UniProt:**

[P42224](#)    [Related reagents](#)

**Entrez Gene:**

[6772](#)    STAT1    [Related reagents](#)

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**Specificity**

**Mouse anti STAT1 antibody** recognizes signal transducer and activator of transcription 1-alpha/beta (STAT1) also known as transcription factor ISGF-3 components p91/p84. STAT1 is part of the transcription factor STAT family of proteins.

Members of the STAT family respond to cytokines and growth factors and are phosphorylated by receptor associated kinases to form homo- or hetero-dimers. These then translocate to the cell nucleus to act as transcription activators. STAT1 is activated by a number of different ligands including the interferon, gp130 and receptor tyrosine kinase families ([Gerhartz et al. 1996](#)). Mutations in the STAT1 gene lead to a number of immunological disorders including severe combined immunodeficiency phenotypes ([Sharfe et al. 2014](#)), or more selective immunodeficiencies to mycobacteria (usually mycobacteria) bacteria, viruses or fungi depending on the mutation or abnormality involved ([Boisson-Dupuis et al. 2012](#)).

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**Western Blotting**

Mouse anti STAT1 antibody detects bands of approximately 86 kDa and 92 kDa in HeLa cells

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**Storage**

This product is shipped at ambient temperature.  
Store undiluted at -20°C, avoiding repeated freeze thaw cycles

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**Guarantee**

12 months from date of despatch

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**Acknowledgements**

PrecisionAb is a trademark of Bio-Rad Laboratories

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**Health And Safety Information**

Material Safety Datasheet documentation #10040 available at:  
<https://www.bio-rad-antibodies.com/SDS/VMA00980>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)

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