

Datasheet: VMA00899

**BATCH NUMBER 155803**

<b>Description:</b>	RABBIT ANTI STAT3 (pTyr705)
<b>Specificity:</b>	STAT3 (pTyr705)
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	RM261
<b>Isotype:</b>	IgG
<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
Immunohistology - Paraffin	▪			1/1000 - 1/10,000
Western Blotting	▪			1/1000 - 1/2000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

### Target Species

Human

### Species Cross Reactivity

Based on sequence similarity, is expected to react 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

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

### Buffer Solution

Phosphate buffered saline

### Preservative

0.09% Sodium Azide

<b>Stabilisers</b>	1% Bovine Serum Albumin 50% Glycerol
<b>Immunogen</b>	A phospho-peptide corresponding to Human STAT3 (pTyr705)
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P40763</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">6774</a>    STAT3    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	APRF
<b>Specificity</b>	<p><b>Rabbit anti Human STAT3 (pTyr705) antibody</b> recognizes signal transducer and activator of transcription 3 (STAT3), also known as acute-phase response factor (APRF), when phosphorylated at tyrosine 705. STAT3 is a transcription factor, affecting the expression of over a thousand gene products, is an important regulator of cell proliferation and survival, and plays a role in autophagy (You et al. 2015). Activation of STAT3 mostly occurs through phosphorylation of Tyr705, leading to translocation of STAT3 dimers to the nucleus. STAT3 can regulate both tumor suppressor genes and oncogenes, and is able to regulate tumor microenvironments (Galoczova et al. 2018). Constitutive activation of STAT3 has been identified in tumor cells and tumor-infiltrated immune cells, and activated STAT3 triggers tumor progression by directly regulating expression of oncogenic genes (Wang et al. 2018).</p>
<b>Western Blotting</b>	Rabbit anti STAT3 (pTyr705) antibody detects a band of approximately 84 kDa in AA431 cell lysates
<b>Storage</b>	<p>Store at -20°C only.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10048 available at:  <a href="https://www.bio-rad-antibodies.com/SDS/VMA00899">https://www.bio-rad-antibodies.com/SDS/VMA00899</a>  10048</p>
<b>Regulatory</b>	For research purposes only

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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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