

Datasheet: AHP2350

BATCH NUMBER 151214

Description:	RABBIT ANTI STAT3
Specificity:	STAT3
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

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	■			0.5 - 4.0 ug/ml

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	Mouse
Species Cross Reactivity	<p>Reacts with: Human, Rat</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
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<p>30% Glycerol</p> <p>0.5% Bovine Serum Albumin</p> <p>0.01% Thiomersal</p>
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml

Immunogen Synthetic peptide surrounding amino acid 73 of rat STAT3

External Database

Links

UniProt:

[P42227](#)

[Related reagents](#)

Entrez Gene:

[20848](#)

Stat3

[Related reagents](#)

Synonyms

Aprf

Specificity

Rabbit anti STAT3 antibody recognizes signal transducer and activator of transcription 3 (STAT3), a member of the STAT protein family, which plays an important role in cell growth, survival differentiation and transformation, transducing signals from cytokine receptors to the nucleus. STAT3 is phosphorylated by members of the Janus kinase (JAK) family in response to cytokines and growth factors including interleukin-5, interleukin-6, epidermal growth factor and leukaemia inhibitory factor. Phosphorylation results in STAT activation and the formation of STAT3 homo- or STAT3/STAT1 and STAT3/STAT5 heterodimers. STAT dimers translocate from the cytoplasm to the nucleus where they act as transcription factors. Deregulated JAK/STAT signaling has been implicated in a variety of cancers; STATs can regulate the tumor microenvironment and trigger a shift from cancer inhibition to promotion. STAT3 is expressed in the heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Consistent STAT3 activation has been demonstrated to play a role in cell proliferation and tumor promoting inflammation.

Western Blotting

Rabbit anti STAT3 antibody recognizes a band of approximately 97 kDa in Jurkat cell lysate, 3T3 cell lysate and rat kidney tissue lysate

Storage

Store at -20°C

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10096 available at:

<https://www.bio-rad-antibodies.com/SDS/AHP2350>

10096

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

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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

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