Datasheet: AHP2350

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

Reacts with: Human, Rat
N.B. Antibody reactivity and working conditions may vary between species.

Product Form

Purified IgG - liquid

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

30% Glycerol
0.5% Bovine Serum Albumin
0.01% Thiomersal

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 my 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 -20ºC 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.
Shelf Life	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10096 available at: 10096: https://www.bio-rad-antibodies.com/uploads/MSDS/10096.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)	FITC
Sheep Anti Rabbit IgG (STAR35...)	RPE
Goat Anti Rabbit IgG (H/L) (STAR124...)	HRP
Goat Anti Rabbit IgG (Fc) (STAR121...)	Biotin, FITC, HRP
Sheep Anti Rabbit IgG (2AB02...)	Biotin
Sheep Anti Rabbit IgG (STAR36...)	DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800

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

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