

Datasheet: VPA00008

Description:	RABBIT ANTI STAT1 ALPHA
Specificity:	STAT1 ALPHA
Other names:	STAT1a
Format:	Purified
Product Type:	PrecisionAb™ Polyclonal
Isotype:	Polyclonal IgG
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

PrecisionAb antibodies have been extensively [validated for the western blot application](#). The antibody has been validated at the suggested dilution. 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 dependant on sample type.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse, Rat N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Rabbit polyclonal antibody purified by ion exchange chromatography
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Immunogen	Peptide corresponding to amino acids near the C-terminus of human STAT1 alpha
External Database Links	UniProt: P42224 Related reagents Entrez Gene: 6772 STAT1 Related reagents

Specificity

Rabbit anti Human STAT1 alpha antibody recognizes human signal transducer and activator of transcription 1-alpha also known as transcription factor ISGF-3 components p91/p84. STAT1 alpha is one of two isoforms generated by alternative splicing and encoded for by the STAT1 gene. STAT1 alpha is a ~87 kDa protein belonging to the transcription factor STAT family containing a single [SH2 domain](#). Rabbit anti Human STAT1 alpha antibody recognizes epitopes in a carboxy-terminal region of STAT1 alpha not contained in the short isoform STAT1 beta.

Members of the STAT family respond to cytokines and growth factors and are phosphorylated by receptor associated kinase 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 macrophagic (usually mycobacteria) bacteria, viruses or fungi depending on the mutation or abnormality involved ([Boisson-Dupuis et al. 2012](#)).

Rabbit anti Human STAT1 alpha antibody recognizes human STAT1 alpha as a single band of ~87 kDa in multiple human cell line lysates by western blotting under reducing conditions. It also cross reacts with rodent cell line lysates tested.

Western Blotting	Anti STAT1 alpha antibody detects a band of approximately 87 kDa in MCF7 cell lysates.
Instructions For Use	Please refer to the PrecisionAb western blotting protocol . For additional information on secondary antibody dilution and exposure time see product web page.
Storage	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
Shelf Life	As supplied, 12 months from date of despatch.
Acknowledgements	PrecisionAb™ is a trademark of Bio-Rad Laboratories.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: Antibody (10040): https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (H/L) (STAR208...) [HRP](#)

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