

Datasheet: VPA00008KT

Description:	STAT1 ALPHA ANTIBODY WITH CONTROL LYSATE			
Specificity:	STAT1 ALPHA			
Other names:	STAT1a			
Format:	Purified			
Product Type:	PrecisionAb Polyclonal			
lsotype:	Polyclonal IgG			
Quantity:	2 Westerns			

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 <u>www.bio-rad-antibodies.com/protocols</u> .					
	Western Blotting	Yes	No	Not Determined	Suggested Dilution 1/1000	
					1/1000	
	PrecisionAb antibodies application. The antibod product has not been tes exclude its use in such p sample type.	dy has bee sted for us	en validat e in a pa	ed at the suggested dil rticular technique this d	ution. Where this loes not necessarily	
Target Species	Human					
Species Cross Reactivity	Reacts 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	20µl Rabbit polyclonal antibody purified by ion exchange chromatography					
Buffer Solution	Phosphate buffered salir	ie				
Preservative Stabilisers	0.09% Sodium Azide (Na	aN ₃)				

Immunogen

External Database	UniProt:		
Links	P42224 Related reagents		
	Entrez Gene:		
	<u>6772</u> STAT1 <u>Related reagents</u>		
SpecificityRabbit anti Human STAT1 alpha antibody recognizes human signal transd activator of transcription 1-alpha also known as transcription factor ISGF-3 co p91/p84. STAT1 alpha is one of two isoforms generated by alternative splicin encoded for by the STAT1 gene. STAT1 alpha is a ~87 kDa protein belonging transcription factor STAT family containing a single SH2 domain. Rabbit anti STAT1 alpha antibody recognizes epitopes in a carboxy-terminal region of ST 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 <i>et al.</i> 1996). Mutations in he STAT1 gene lead to a number of immunological disorders including severe combined immunodeficiency phenotypes (Sharfe <i>et al.</i> 2014), or more selective immunodeficiencies to macrophagic (usually mycobacteria) bacteria, viruses or fungi depending on the mutation or abnormality involved (Boisson-Dupuis <i>et al.</i> 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 <u>PrecisionAb western blotting protocol</u> . For additional information on secondary antibody dilution and exposure time see product web page.		
Lysate Composition	400µg MCF7 lysate lyophilized in RIPA buffer.		
Lysate Reconstitution	 If using DDT reconstitute the lyophilized lysate with 190µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT. If using BME reconstitute the lyophilized lysate with 180µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 20µl BME. Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol. 		
Storage	Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.		
	Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for		

up to 3 months or at -80°C for longer term storage.

Guarantee	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 #10561 available at: Antibody (10040): <u>https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</u> Lysate Material (10561): <u>https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf</u>
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50
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	From March 15, Look out for upd				

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