STAT1 Antibody

Catalog No: #21044

Package Size: #21044-1 50ul #21044-2 100ul



Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

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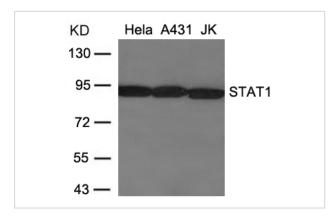
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Product Name	STAT1 Antibody	
Host Species	Rabbit	
Clonality	Polyclonal	
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were	
	purified by affinity-chromatography using epitope-specific peptide.	
Applications	WB IHC	
Species Reactivity	Human;Mouse;Rat	
Specificity	The antibody detects endogenous level of total STAT1 protein.	
Immunogen Type	Peptide-KLH	
Immunogen Description	Peptide sequence around aa. 699~703 (T-G-Y-I-K) derived from Human STAT1.	
Conjugates	Unconjugated	
Target Name	STAT1	
Other Names	CANDF7, ISGF-3, STAT91	
Accession No.	Swiss-Prot: P42224NCBI Protein: NP _009330.1	
SDS-PAGE MW	84,91kd	
Concentration	1.0mg/ml	
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02%	
	sodium azide and 50% glycerol.	
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.	

Application Details

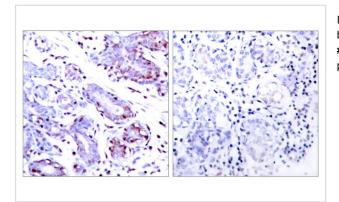
Predicted MW: 84,91kd

Western blotting: 1:500~1:1000
Immunohistochemistry: 1:50~1:100

Images



Western blot analysis of extracts from Hela, A431 and JK cells using STAT1(Ab-701) Antibody #21044.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using STAT1(Ab-701) Antibody #21044(left) or the same antibody preincubated with blocking peptide(right).

Background

Signal transducer and activator of transcription that mediates signaling by interferons (IFNs). Following type I IFN (IFN-a and IFN-beta) binding to cell surface receptors, Jak kinases (TYK2 and JAK1) are activated, leading to tyrosine phosphorylation of STAT1 and STAT2. The phosphorylated STATs dimerize, associate with ISGF3G/IRF-9 to form a complex termed ISGF3 transcription factor, that enters the nucleus. ISGF3 binds to the IFN stimulated response element (ISRE) to activate the transcription of interferon stimulated genes, which drive the cell in an antiviral state. In response to type II IFN (IFN-gamma), STAT1 is tyrosine- and serine-phosphorylated. It then forms a homodimer termed IFN-gamma-activated factor (GAF), migrates into the nucleus and binds to the IFN gamma activated sequence (GAS) to drive the expression of the target genes, inducing a cellular antiviral state.

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Wakao H, et al. (1994) EMBO J. 13: 2182-2191.

Demoulin J, B. et al. (1999) J Biol Chem. 274: 25855-258

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Published Papers

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.