

Datasheet for ABIN964699

anti-STAT2 antibody (C-Term)

1 Image



Go to Product page

Overview

Quantity:	100 μg
Target:	STAT2
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

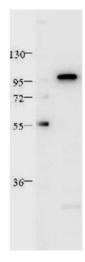
Purpose:	Stat2 Antibody
Immunogen:	Immunogen: This monoclonal antibody was produced by repeated immunizations with a synthetic peptide corresponding to residues near the carboxy terminus of mouse STAT2 protein.
	Immunogen Type: Conjugated Peptide
Clone:	19G8-H2-H6
Isotype:	IgG2a kappa
Cross-Reactivity (Details):	This Protein-A purified antibody is directed against human STAT2 protein. A BLAST analysis was used to suggest cross-reactivity with STAT2 protein from human, rat (73 %) and mouse (76 %), sources based on homology with the immunizing sequence.
Characteristics:	Synonyms: mouse anti-STAT2 antibody, Stat 2, Signal transducer and activator of transcription 2, p113

Product Details

Purification:	Protein A purified
Sterility:	Sterile filtered
Target Details	
Target:	STAT2
Alternative Name:	Stat2 (STAT2 Products)
Background:	Background: STAT2 is a member of the STAT family of transcription factors. Unlike other
	STATs, STAT2 is unique as it can only be activated by interferons (IFNs). STAT2 is a critical
	component in mediating many IFN-stimulated biological activities including antiproliferation
	and antiviral responses. Upon IFN treatment, STAT1 and STAT2 become tyrosine
	phosphorylated, assemble as heterodimers that bind IRF9 to form the ISGF3 complex. This
	complex translocates to the nucleus, binds to promoters of IFN-stimulated genes and mediates
	gene transcription. Consequently, mutations in STAT2 or loss of STAT2 expression leads to
	impairment in IFN signal transduction and gene activation. IFN-alpha is an approved drug for
	the treatment of several forms of cancer. Yet only a subset of patients who receive IFN-alpha
	therapy benefit from the treatment. Given that STAT2 is activated by IFNs, it is important to
	define if the reduced or lack of antitumor effects seen in cancer patients on IFN therapy is due
	to in defects in STAT2 function. Our goal is to identify regions/motifs within the structural
	domains of STAT2 that not only are essential for the tyrosine phosphorylation of STAT2, but
	also regulate the antitumor effects of IFN-alpha. Collectively, the results of our studies will
	emphasize the physiological role of STAT2 in cancer. From a clinical viewpoint, cancer patients
	who may benefit the most from receiving IFN-alpha therapy can be selected based on their
	STAT2 function.
Gene ID:	6773, 4885615
UniProt:	Q9WVL2
Pathways:	JAK-STAT Signaling, Hepatitis C, CXCR4-mediated Signaling Events
Application Details	
Application Notes:	Immunohistochemistry Dilution: 1:2.5 µg/mL
	Application Note: This Protein-A purified antibody has been tested for use in ELISA,
	immunohistochemistry, and western blotting. Specific conditions for reactivity should be
	optimized by the end user. Expect a band approximately 113 kDa in size corresponding to
	STAT2 protein by western blotting in the appropriate cell lysate or extract.
	zzptozjtottozottoz

Application Details

	Western Blot Dilution: 1:1000
	ELISA Dilution: 1:5,000 - 1:10,000
	Other: User Optimized
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months
Images	



Western Blotting

Image 1. HeLa whole cell lysate was loaded at 1 μ g. The blot was blocked with 1% BSA in TBST for 30 min at RT, then washed and incubated with anti-Stat2 antibody in 3% BSA/TBST at 1:1,000 overnight at 4C. After washing, blot was incubated with HRP Rb a-Ms IgG antibody in blocking buffer for 30 minutes at RT. Data was collected using Bio-Rad 4000 MP.