Datasheet for ABIN7169664

anti-STAT1 antibody (AA 63-196)

3 Images

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Overview

Quantity:	100 µg
Target:	STAT1
Binding Specificity:	AA 63-196
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This STAT1 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Signal transducer and activator of transcription 1-alpha/beta protein (63-196AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	STAT1
Alternative Name:	STAT1 (STAT1 Products)
Background:	Background: Signal transducer and transcription activator that mediates cellular responses to

Target Details

	interferons (IFNs), cytokine KITLG/SCF and other cytokines and other growth factors. Following type I IFN (IFN-alpha and IFN-beta) binding to cell surface receptors, signaling via protein kinases leads to activation of Jak kinases (TYK2 and JAK1) and to tyrosine phosphorylation of STAT1 and STAT2. The phosphorylated STATs dimerize and 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 IFN-stimulated genes (ISG), 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. Becomes activated in response to KITLG/SCF and KIT signaling. May mediate cellular responses to activated FGFR1, FGFR2, FGFR3 and FGFR4. Aliases: Signal transducer and activator of transcription 1 91kD antibody, CANDF7 antibody, DKFZp686B04100 antibody, IMD31A antibody, IMD31B antibody, IMD31C antibody, ISGF 3 antibody, ISGF-3 antibody, OTTHUMP00000163552 antibody, OTTHUMP00000165046 antibody, OTTHUMP00000165047 antibody, OTTHUMP00000205845 antibody, Signal transducer and activator of transcription 1 91 kDa antibody, Signal transducer and activator of transcription 1 antibody, Signal transducer and activator of transcription 1, 91kD antibody, Signal transducer and activator of transcription 1-alpha/beta antibody, STAT 1 antibody, Stat1 antibody, STAT1_HUMAN antibody, STAT91 antibody, Transcription factor ISGF 3 components p91 p84 antibody, Transcription factor ISGF-3 components p91/p84 antibody, Transcription factor ISGF3 components p91/p84 antibody, XStat1 antibody
UniProt:	P42224
Pathways:	JAK-STAT Signaling, RTK Signaling, Interferon-gamma Pathway, Response to Growth Hormone Stimulus, Cellular Response to Molecule of Bacterial Origin, Positive Regulation of Endopeptidase Activity, Hepatitis C, CXCR4-mediated Signaling Events

Application Details

Application Notes:	Recommended dilution: IHC:1:20-1:200, IF:1:50-1:200,
Restrictions:	For Research Use only

Handling

Format:	Liquid

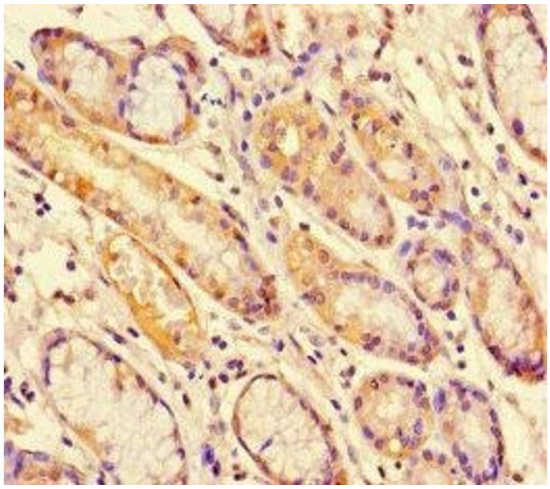
Handling

Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images

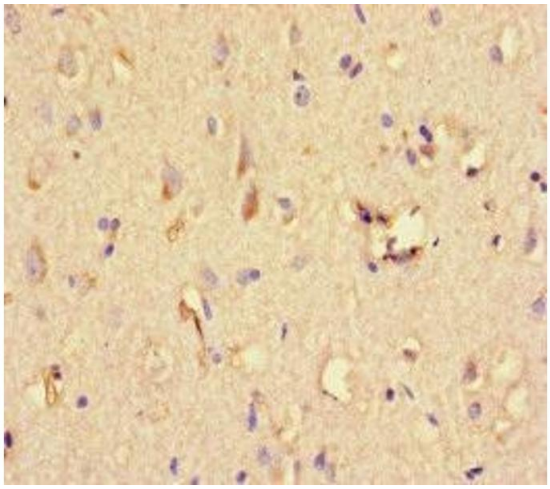
Immunofluorescence

Image 1. Immunofluorescent analysis of HepG2 cells using ABIN7169664 at dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)



Immunohistochemistry

Image 2. Immunohistochemistry of paraffin-embedded human gastric cancer using ABIN7169664 at dilution of 1:100



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded human brain tissue using ABIN7169664 at dilution of 1:100

