

Rabbit STAT1 Polyclonal Antibody | anti-STAT1 antibody

Phospho-STAT1 (Tyr701) Antibody

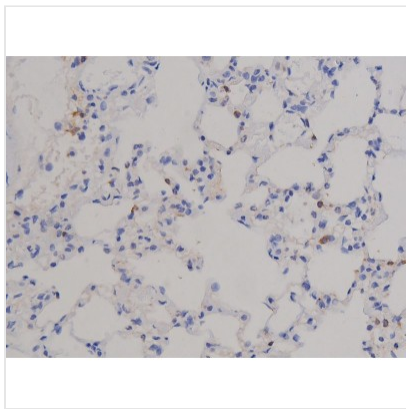
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31044	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunofluorescence, Immunoprecipitation, ELISA

PRODUCT SYNONYMS

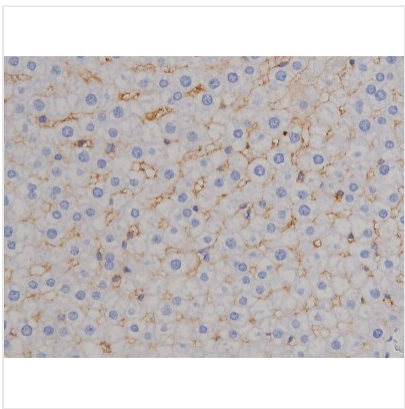
STAT1; Polyclonal Antibody; Phospho-STAT1 (Tyr701) Antibody; CANDF7; DKFZp686B04100; ISGF 3; ISGF3; OTTHUMP00000163552; OTTHUMP00000165046; OTTHUMP00000165047; OTTHUMP00000205845; Signal transducer and activator of transcription 1; 91kDa; Signal transducer and activator of transcription 1- α /beta; Stat1; STAT1_HUMAN; STAT91; Transcription factor ISGF-3 components p91/p84; anti-STAT1 antibody

PRODUCT SPECIFICATIONS

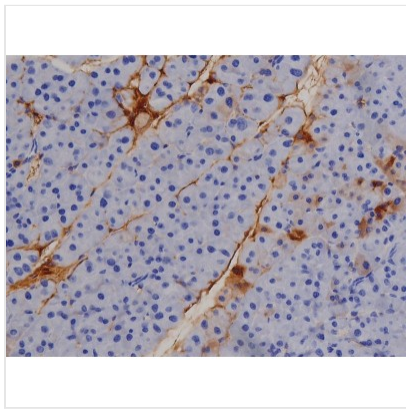
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-STAT1 (Tyr701) antibody detects endogenous levels of STAT1 only when phosphorylated at Tyrosine 701
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	~1mg/ml (varies by lot)
Sequence Length	750
Applicable Applications for anti-STAT1 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), IP (Immunoprecipitation), ELISA
Application Notes	WB: 1:500-1:2000 IHC: 1:50-1:200 IF/ICC: 1:100-1:500 ELISA(peptide) 1:20000-1:40000 IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v milk, 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight. Optimal dilutions/concentrations should be determined by the end user.
Immunogen	A synthesized peptide derived from human STAT1 around the phosphorylation site of Tyrosine 701
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



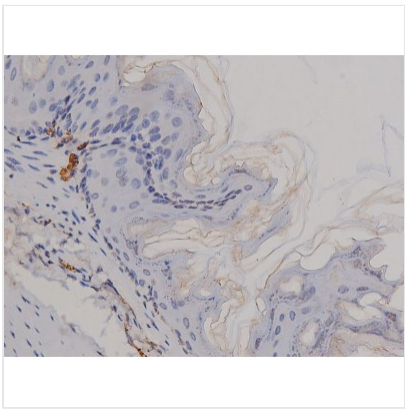
IHC (Immunohistochemistry)
AAA31044 at 1/200 staining Rat lung tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



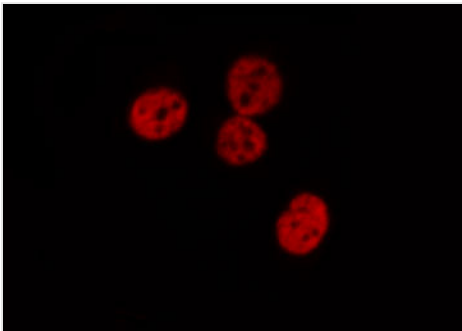
IHC (Immunohistochemistry)
AAA31044 at 1/200 staining Rat liver tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



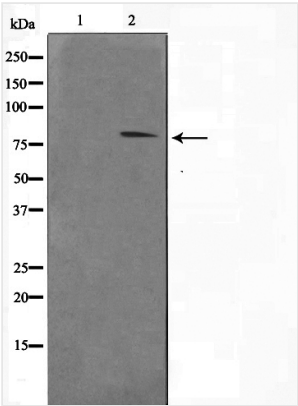
IHC (Immunohistochemistry)
AAA31044 at 1/200 staining Mouse pancreas tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IHC (Immunohistochemistry)
AAA31044 at 1/200 staining Mouse ganstric tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)
AAA31044 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of STAT1 phosphorylation expression in MCF7 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-STAT1 antibody

The protein encoded by this gene is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo-or heterodimers that translocate to the cell nucleus where they act as transcription activators.

References	Liu X, Wu XP, Zhu XL, Li T, Liu Y; Journal: Int Immunopharmacol. IRG1 increases MHC class I level in macrophages through STAT-TAP1 axis depending on NADPH oxidase mediated reactive oxygen species. Chen L, Zhou D, Liu Z, Huang X, Liu Q, Kang Y, Chen Z, Guo Y, Zhu H, Sun C; Journal: Oncol Rep. Combination of gemcitabine and erlotinib inhibits recurrent pancreatic cancer growth in mice via the JAK-STAT pathway.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6274552
NCBI GeneID	6772
NCBI Accession #	NP_009330.1
NCBI GenBank Nucleotide #	NM_007315.3
UniProt Accession #	P42224; Q53S88; Q53XW4; Q68D00; Q9UDL5; A8K989; B2RCA0; D2KFR8; D3DPI7
Molecular Weight	84 kDa
NCBI Official Full Name	signal transducer and activator of transcription 1-alpha/beta isoform alpha
NCBI Official Synonym Full Names	signal transducer and activator of transcription 1
NCBI Official Symbol	STAT1
NCBI Official Synonym Symbols	CANDF7; IMD31A; IMD31B; IMD31C; ISGF-3; STAT91
NCBI Protein Information	signal transducer and activator of transcription 1-alpha/beta
UniProt Protein Name	Signal transducer and activator of transcription 1-alpha/beta
UniProt Gene Name	STAT1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.