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[Primary Antibody]

Rabbit Anti-STAT5 antibody

Catalog Number: SL1142R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	STAT5
Immunogen:	KLH conjugated synthetic peptide derived from human STAT5: 61-160/794
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Flow-Cyt (2ug/Test) ICC/IF (1:100-500) ELISA (1:5000-10000) Not yet tested in other applications. Optimal working dilutions must be determined by the end user.
Reactivity:	Human, Mouse (predicted: Rat, Rabbit, Pig, Cow, Dog, Horse)
Predicted MW.:	90kDa
Subcellular Location:	The nucleus cytoplasmic
Background:	The protein encoded by this gene is a member of the STAT family of transcription factors. 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. This protein is activated by, and mediates the responses of many cell ligands, such as IL2, IL3, IL7 GM-CSF, erythropoietin, thrombopoietin, and different growth hormones. Activation of this protein in myeloma and lymphoma associated with a TEL/JAK2 gene fusion is independent of cell stimulus and has been shown to be essential for the tumorigenesis. The mouse counterpart of this gene is found to induce the

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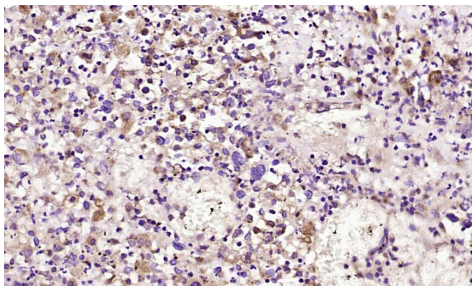
	expression of BCL2L1/BCL-X(L), which suggests the antiapoptotic function of this gene in cells. [provided by RefSeq, Jul 2008] **Function:** Carries out a dual function: signal transduction and activation of transcription. Mediates cellular responses to the cytokine KITLG/SCF and other growth factors. Mediates cellular responses to ERBB4. May mediate cellular responses to activated FGFR1, FGFR2, FGFR3 and FGFR4. Binds to the GAS element and activates PRL-induced transcription. Regulates the expression of milk proteins during lactation. **Subunit:** Forms a homodimer or a heterodimer with a related family member. Binds NR3C1. Interacts with NCOA1 and SOCS7. Interacts with ERBB4. **Subcellular Location:** Cytoplasm. Nucleus. Note=Translocated into the nucleus in response to phosphorylation. **Post-translational modifications:** Tyrosine phosphorylated in response to KITLG/SCF, IL2, IL3, IL7, IL15, CSF2/GMCSF, GH1, PRL, EPO and THPO. Activated KIT promotes phosphorylation on tyrosine residues and subsequent translocation to the nucleus. Tyrosine phosphorylated in response to constitutively activated FGFR1, FGFR2, FGFR3 and FGFR4. Tyrosine phosphorylation is required for DNA-binding activity and dimerization. Serine phosphorylation is also required for maximal transcriptional activity (By similarity). Tyrosine phosphorylated in response to signaling via activated FLT3; wild-type FLT3 results in much weaker phosphorylation than constitutively activated mutant FLT3. Alternatively, can be phosphorylated by JAK2 at Tyr-694. **Similarity:** Belongs to the transcription factor STAT family. Contains 1 SH2 domain. **Database links:** **Entrez Gene:** 6776 Human **Entrez Gene:** 6777 Human **Entrez Gene:** 20850 Mouse **Entrez Gene:** 20851 Mouse **Entrez Gene:** 24918 Rat **Entrez Gene:** 25126 Rat **Entrez Gene:** 443419 Sheep Omim: 601511 Human Omim: 604260 Human **SwissProt:** Q95115 Cow **SwissProt:** Q9TUM3 Cow **SwissProt:** P42229 Human **SwissProt:** P51692 Human **SwissProt:** P42230 Mouse

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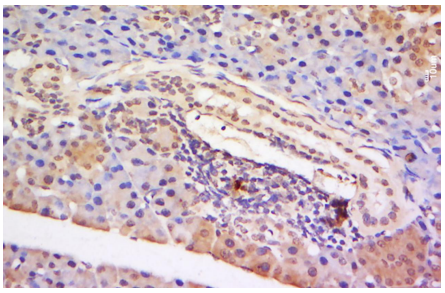
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	SwissProt: P42232 Mouse **SwissProt:** P52632 Rat **SwissProt:** Q62771 Rat **SwissProt:** P42231 Sheep **Unigene:** 437058 Human **Unigene:** 277403 Mouse **Unigene:** 154399 Rat transcriptional regulatory factor（Transcriptin Regulators） The STAT-signal transduction and activator of transcription protein family is a class of transcription factors discovered in recent years. Through the JAK-STAT pathway, it mediates many responses induced by cell factors and participates in cellular signal transduction and transcription.

[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (human endometrial carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (STAT5) Polyclonal Antibody, Unconjugated (SL1142R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Tissue/cell: Mouse lymph tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min;
Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-STAT5 Polyclonal Antibody, Unconjugated(SL1142R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

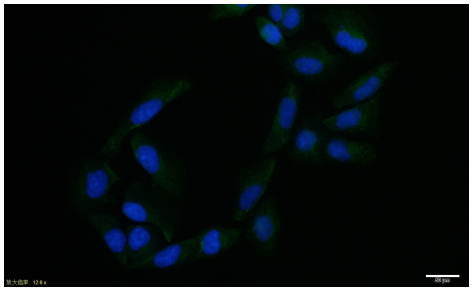
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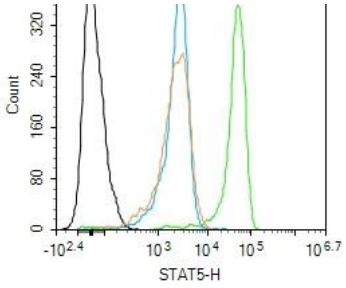
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Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (STAT5) polyclonal Antibody, Unconjugated (SL1142R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

Blank control:Jurkat.
Primary Antibody (green line): Rabbit Anti-STAT5 antibody (SL1142R)
Dilution: 2ug/Test;
Secondary Antibody : Goat anti-rabbit IgG-FITC
Dilution: 0.5ug/Test.
Protocol
The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20°C.The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

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