



Rabbit Anti-STAT6 antibody

SL1143R

Product Name:	STAT6
Chinese Name:	Signal transduction和转录激活因子6抗体
Alias:	signal transducers and activators of transduction 6; D12S1644; IL 4 STAT; IL4 STAT; Interleukin 4 Induced; Interleukin 4 Induced Transcription Factor IL4 STAT; Signal Transducer And Activator Of Transcription 6 Interleukin 4 Induced; Signal Transducer And Activator Of Transcription 6 Nirs Variant 1; STAT 6; STAT interleukin4 induced; STAT6B; STAT6C; Transcription factor IL 4 STAT.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=3ug/test IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	94kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human STAT6:601-700/841
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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 plays a central role in exerting IL4 mediated biological responses. It is found to induce the expression of BCL2L1/BCL-X (L), which is responsible for the anti-apoptotic activity of IL4. Knockout studies in mice suggested the roles of this gene in differentiation of T helper 2 (Th2) cells, expression of cell surface markers, and class switch of immunoglobulins.

Function:

Carries out a dual function: signal transduction and activation of transcription. Involved in interleukin-4 signalling.

Subunit:

Forms a homodimer or a heterodimer with a related family member. Interacts with NCOA1 via its C-terminal LXXLL motif.

Subcellular Location:

Cytoplasm. Nucleus. Translocated into the nucleus in response to phosphorylation.

Post-translational modifications:

Tyrosine phosphorylated following stimulation by IL-4 and IL-3.

Similarity:

Belongs to the transcription factor STAT family.
Contains 1 SH2 domain.

SWISS:

P42226

Gene ID:

6778

Database links:

[Entrez Gene: 6778](#)Human

[Entrez Gene: 20852](#)Mouse

[Entrez Gene: 362896](#)Rat

[Omin: 601512](#)Human

[SwissProt: P42226](#)Human

[SwissProt: P52633](#)Mouse

[Unigene: 524518](#)Human

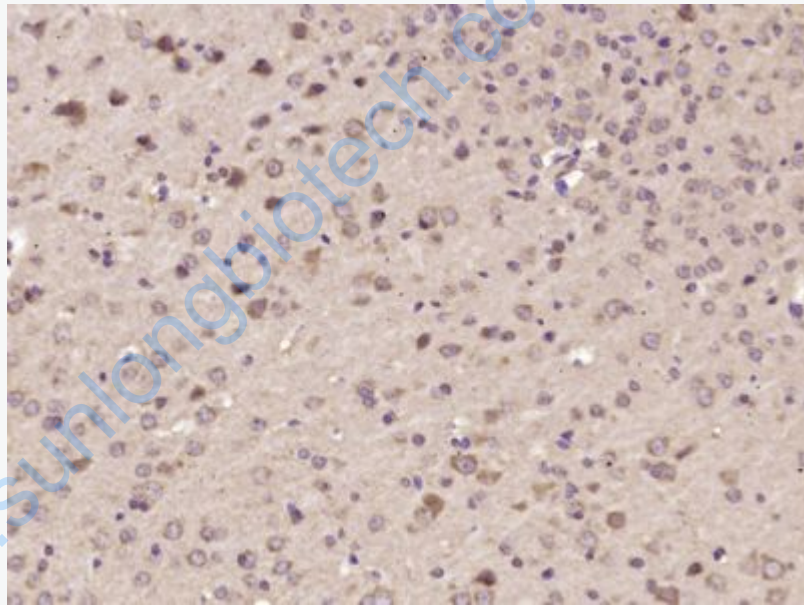
[Unigene: 121721](#)Mouse

[Unigene: 6880](#)Rat

Important Note:

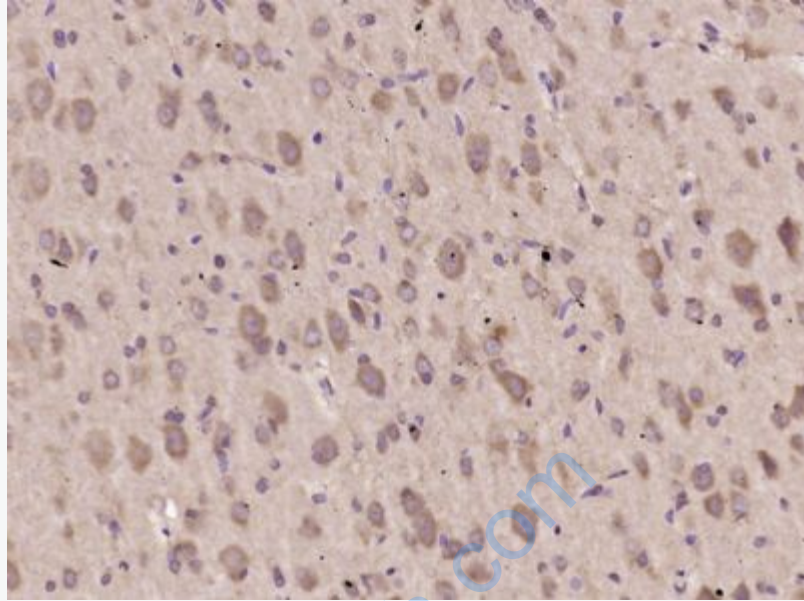
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信息转导和转录激活因子-6(signal transducer and activator of transcription-6, STAT6)是Signal transduction和转录激活因子(STAT)家族的一员, 是一种94kD的蛋白质。它通过JAK-STAT Signal transduction途径介导cell factor IL-3、IL-4及IL-13诱导的基因表达, 特别是在促进IL-4诱导的MHC II类抗原及免疫球蛋白受体等的表达及Th2细胞和lymphocyte的发育上发挥了重要的作用。

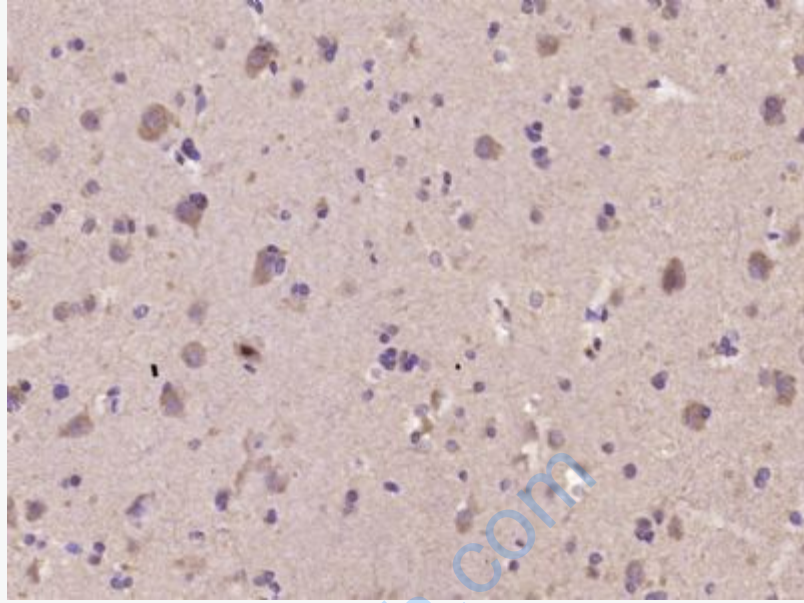


Picture:

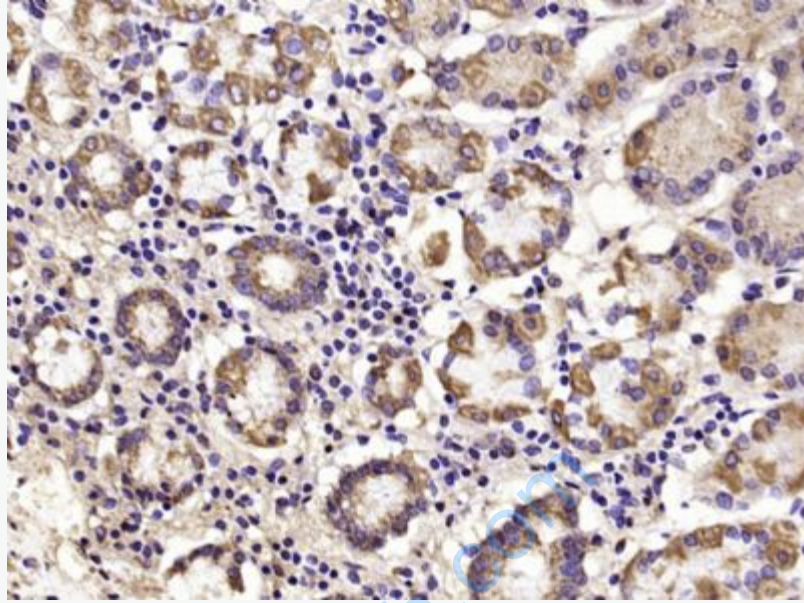
Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by microwave in sodium citrate buffer (pH6.0) ; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (STAT6) Polyclonal Antibody, Unconjugated (SL1143R) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP)and DAB staining.



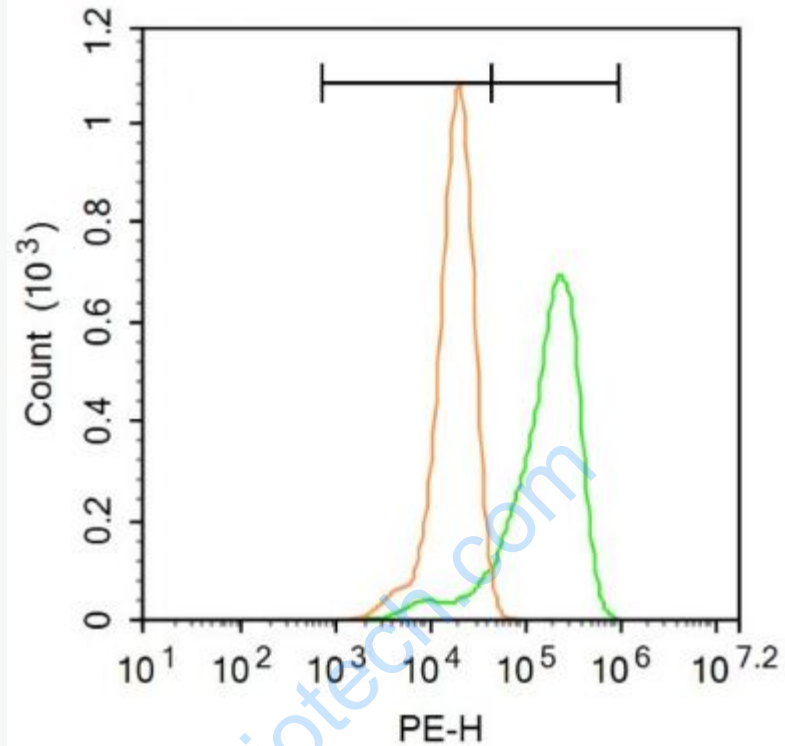
Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by microwave in sodium citrate buffer (pH6.0) ; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (STAT6) Polyclonal Antibody, Unconjugated (SL1143R) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP) and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by microwave in sodium citrate buffer (pH6.0) ; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (STAT6) Polyclonal Antibody, Unconjugated (SL1143R) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP) and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human stomach); Antigen retrieval by microwave in sodium citrate buffer (pH6.0) ; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (STAT6) Polyclonal Antibody, Unconjugated (SL1143R) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP) and DAB staining.



Blank control: A549.

Primary Antibody (green line): Rabbit AntiSTAT6 antibody (SL1143R)

Dilution: 1 μ g /10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-PE

Dilution: 3 μ g /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 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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