SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-STAT6 antibody

Catalog Number: SL1143R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	STAT6
Immunogen:	KLH conjugated synthetic peptide derived from human STAT6: 601-700/841
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 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat(predicted:Dog)
Predicted MW.:	94kDa
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 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.

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	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. **Database links:** **Entrez Gene:** 6778 Human **Entrez Gene:** 20852 Mouse **Entrez Gene:** 362896 Rat Omim: 601512 Human **SwissProt:** P42226 Human **SwissProt:** P52633 Mouse **Unigene:** 524518 Human **Unigene:** 121721 Mouse **Unigene:** 6880 Rat Signal transducer and activator of transcription-6 (STAT6) is a member of the Signal transduction and activator of transcription (STAT) family and is a 94 kD protein. Through the JAK-STAT Signal transduction pathway, it mediates gene expression induced by cell factor IL-3, IL-4, and IL-13, especially in promoting IL-4-inducedMHCIIIt plays an important role in the expression of HLA antigens and immunoglobulin receptors, as well as in the development of Th2 cells and lymphocytes.

[VALIDATION IMAGES]

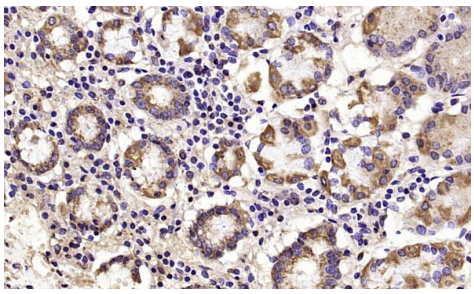


Figure 1. Paraformaldehyde-fixed, paraffin embedded (Human stomach); Antigen retrieval by microwave in sodium citrate buffer (pH6.0); Block endogenous peroxidase by 3% hydrogen peroxidee for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (STAT6) Polyclonal Antibody, Unconjugated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

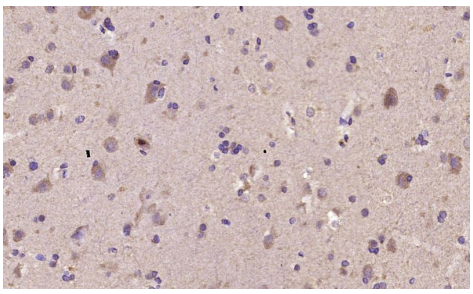


Figure 2. Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by microwave in sodium citrate buffer (pH6.0); Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (STAT6) Polyclonal Antibody, Unconjugated (SL1143R) at 1:400 overnight at 4℃, followed by conjugation to the secondary antibody (labeled with HRP)and DAB staining

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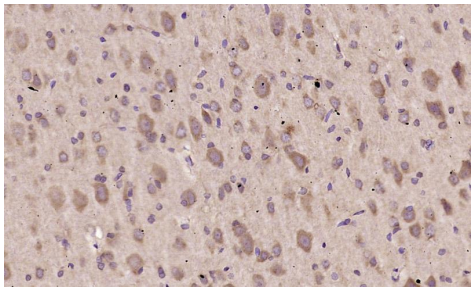


Figure 3. Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by microwave in sodium citrate buffer (pH6.0); Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (STAT6) Polyclonal Antibody, Unconjugated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

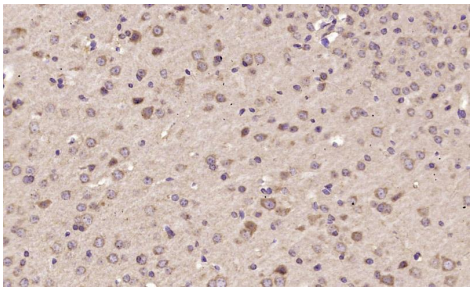


Figure 4. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by microwave in sodium citrate buffer (pH6.0); Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (STAT6) Polyclonal Antibody, Unconjugated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

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