Product Datasheet

STAT6 Rabbit mAb

Catalog No: #48795

Package Size: #48795-1 50ul #48795-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

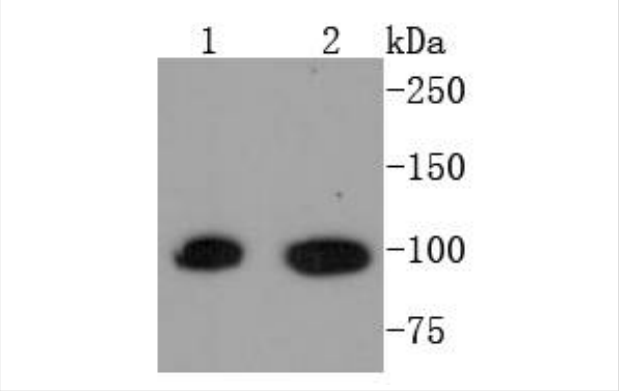
Description

Product Name	STAT6 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SY02-72
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP
Species Reactivity	Human;Mouse
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	12S1644 antibody D12S1644 antibody IL 4 STAT antibody IL-4 Stat antibody IL4 STAT antibody Interleukin 4 Induced antibody Interleukin 4 Induced Transcription Factor IL4 STAT antibody Signal transducer and activator of transcription 6 antibody Signal Transducer And Activator Of Transcription 6 Interleukin 4 Induced antibody Signal Transducer And Activator Of Transcription 6 Nirs Variant 1 antibody Signal transducer and activator of transcription 6, interleukin 4 induced antibody STAT 6 antibody STAT interleukin4 induced antibody STAT, interleukin4 induced antibody Stat6 antibody STAT6_HUMAN antibody STAT6B antibody STAT6C antibody Transcription factor IL 4 STAT antibody
Accession No.	Swiss-Prot#:P42226
Calculated MW	94 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

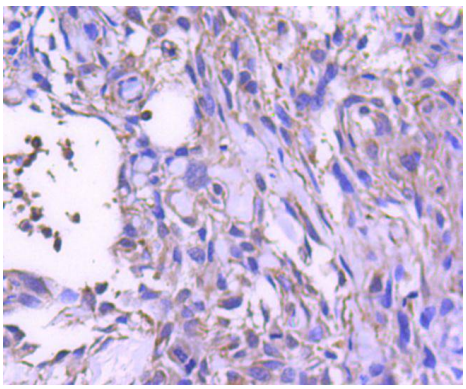
Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200ICC: 1:50-1:200

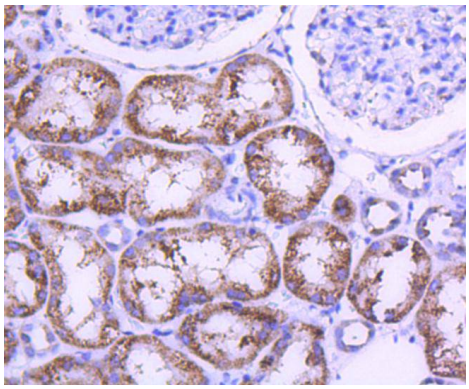
Images



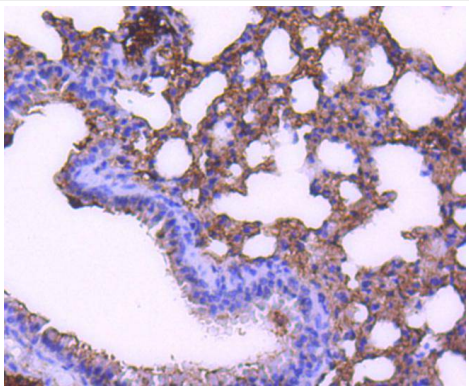
Western blot analysis of STAT6 on different lysates using anti-STAT6 antibody at 1/1,000 dilution. Positive control:
Lane 1: Hela Lane 2: Raji



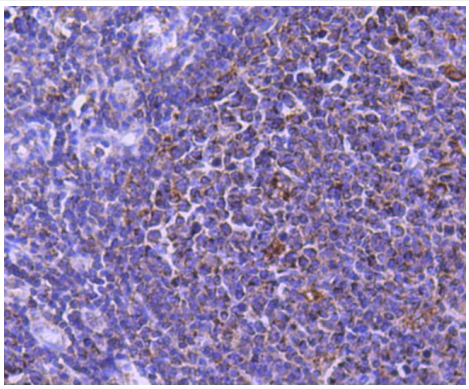
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-STAT6 antibody. Counter stained with hematoxylin.



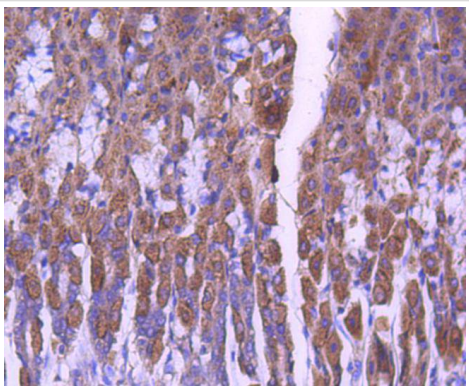
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-STAT6 antibody. Counter stained with hematoxylin.



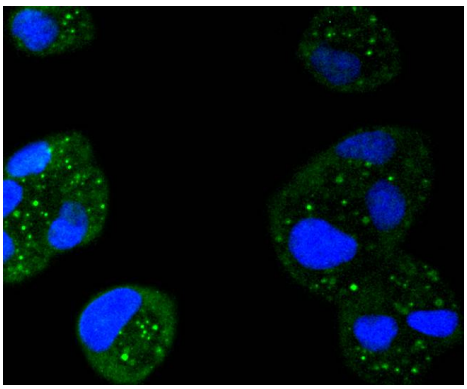
Immunohistochemical analysis of paraffin-embedded mouse lung tissue using anti-STAT6 antibody. Counter stained with hematoxylin.



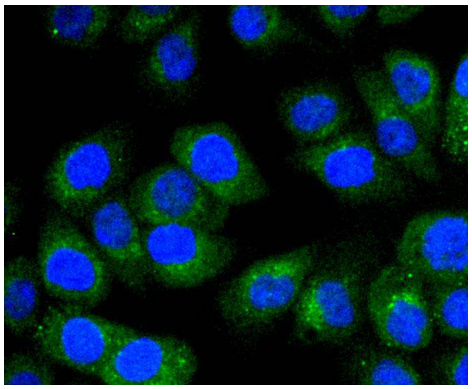
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-STAT6 antibody. Counter stained with hematoxylin.



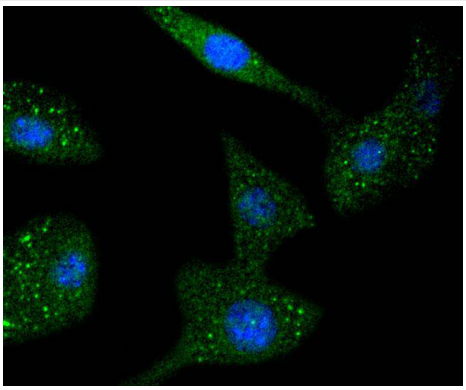
Immunohistochemical analysis of paraffin-embedded mouse stomach tissue using anti-STAT6 antibody. Counter stained with hematoxylin.



ICC staining STAT6 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining STAT6 in AGS cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining STAT6 in NIH/3T3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Background

Membrane receptor signaling by various ligands, including interferons and growth hormones such as EGF, induces activation of JAK kinases which then leads to tyrosine phosphorylation of proteins that have been designated Stats (signal transducers and activators of transcription). The first members of this family to be described include Stat1α p91, Stat1β p84 (a form of p91 that lacks 38 COOH-terminal amino acids) and Stat2 p113. Stat1 and Stat2 are induced by IFN-a and form a heterodimer which is part of the ISGF3 transcription factor complex. Stat3, which becomes activated in response to epidermal growth factor (EGF) and interleukin-6 (IL-6), but not interferon-? (IFN-?) or Stat4, is an additional member of this family. It has been suggested that the phosphorylated forms of both Stat3 and Stat4 form homodimers as well as heterodimers with the other members of the Stat family, and that differential activation of different Stat proteins in response to different ligands should help to explain specificity in nuclear signaling from the cell surface. Highest expression of Stat4 is seen in testis and myeloid cells. IL-12 has been identified as an activator of Stat4. Other members of the Stat family include Stat5, which has been shown to be activated by prolactin and by IL-3, and Stat6 (also designated IL-4 Stat), which is involved in IL-4-activated signaling pathways.

References

1. Zheng, C. et al. 2015. CD11b regulates obesity-induced insulin resistance via limiting alternative activation and proliferation of adipose tissue macrophages. Proc. Natl. Acad. Sci. U.S.A.. 112: E7239-48. 2. Carlson, TJ. et al. 2014. Halofuginone-induced amino acid starvation regulates Stat3-dependent Th17 effector function and reduces established autoimmune inflammation. J. Immunol.. 192: 2167-76.

Published Papers

Liu Xinan, Aguirre Carlos A., Yang Qixing, Ren Jiayan, Wang Lina, Ju Furong, Guo Hongling, Wang Jintao, Liu Luping, Li Zixuan, He Juan, Xu Zhibin, Shi Cuihan, CintronColon Rigo, Michel Tatiana, Wood Malcolm, Margetts Alexander V., Pollock Tate A., Vilca Samara J., Tuesta Luis M., Di Angelantonio Silvia, Basilico Bernadette, De Stefano Maria Egle, Xia Jianxun, Wei Pengfei, Li Shupeng, Yang Xiaofei, Wang Liping, DelormeWalker Violaine D., Marcondes Maria Cecillia Garibaldi, Parsons Loren, Conti Bruno, Chen Zuxin el at., Interleukin 13 signaling modulates dopaminergic functions and nicotine reward in rodents, Molecular Psychiatry, (2025)

PMID:40775068

Note: This product is for in vitro research use only and is not intended for use in humans or animals.