

[Primary Antibody]

STAT6 Recombinant Rabbit mAb



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ANTIBODIES

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— DATASHEET

Host: Rabbit

Clonality: Recombinant

GeneID: 6778

Target: STAT6

Immunogen: A synthesized peptide derived from human STAT6: 800-847/847.

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°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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. Also known as: 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.

Isotype: IgG

CloneNo.: 9A7

SWISS: P42226

Applications: WB (1:500-2000)

IHC-P (1:100-500)

IHC-F (1:100-500)

IF (1:100-500)

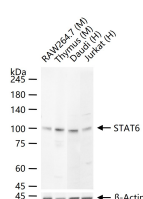
Reactivity: Human, Mouse, Rat

Predicted
MW.: 94 kDa

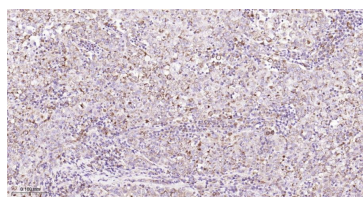
Observed
MW.: 100 kDa

Subcellular Location: Cytoplasm ,Nucleus

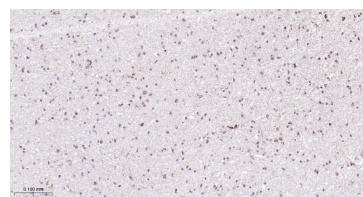
— VALIDATION IMAGES



25 ug total protein per lane of various lysates (see on figure) probed with STAT6 monoclonal antibody, unconjugated (bsm-52239R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human gastric cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with STAT6 Monoclonal Antibody, Unconjugated(bsm-52239R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Left parietal lobe; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with STAT6 Monoclonal Antibody, Unconjugated(bsm-52239R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.

— SELECTED CITATIONS

- **[IF=17.521]** Yi Yan. et al. Nanomedicines Reprogram Synovial Macrophages by Scavenging Nitric Oxide and Silencing CA9 in Progressive Osteoarthritis. *Advanced Science*. 2023 Feb;;2207490 WB ;Mouse. 36748885
- **[IF=6.7]** Shun Wang. et al. Quercetin restores respiratory mucosal barrier dysfunction in *Mycoplasma gallisepticum*-

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- infected chicks by enhancing Th2 immune response. PHYTOMEDICINE. 2024 Aug;;155953 WB ;Chicken. 39154527
- **[IF=5.714]** Lu Yu. et al. Secoisolariciresinol diglucoside-derived metabolite, enterolactone, attenuates atopic dermatitis by suppressing Th2 immune response. INT IMMUNOPHARMACOL. 2022 Oct;111:109039 WB ;Mouse. 35914449
 - **[IF=4.197]** Xue-yin Pan. et al. Alternative activation of macrophages by prostacyclin synthase ameliorates alcohol induced liver injury. Lab Invest. 2021 Jun;;1-15 WB ;Mouse. 34112940
 - **[IF=3.615]** Hu, Lu. et al. Lack of STAT6 enhances murine acute lung injury through NLRP3/p38 MAPK signaling pathway in macrophages. BMC IMMUNOL. 2022 Dec;23(1):1-11 WB ;Mouse. 35606692