

**bs-20382R****[ Primary Antibody ]****STAT3 Rabbit pAb****BioSS**  
**ANTIBODIES**

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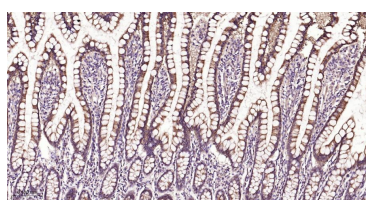
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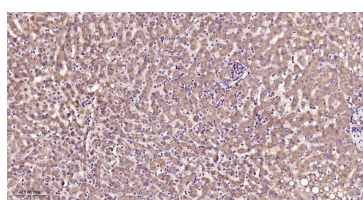
400-901-9800

**— DATASHEET —**

<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 6774 <b>Target:</b> STAT3 <b>Immunogen:</b> KLH conjugated synthetic peptide derived from human STAT3: 151-250/770. <b>Purification:</b> affinity purified by Protein A <b>Concentration:</b> 1mg/ml <b>Storage:</b> Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. <b>Background:</b> The protein encoded by this gene is a member of the STAT protein family. 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 through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. This protein mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of this protein. PIAS3 protein is a specific inhibitor of this protein. Mutations in this gene are associated with infantile-onset multisystem autoimmune disease and hyper-immunoglobulin E syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Sep 2015]	<b>Isotype:</b> IgG <b>SWISS:</b> P40763 <b>Applications:</b> IHC-P (1:200-1000) IHC-F (1:200-1000) IF (1:200-1000) <b>Reactivity:</b> Human, Mouse, Rat <b>Predicted MW.:</b> 88 kDa <b>Subcellular Location:</b> Cytoplasm ,Nucleus
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**— VALIDATION IMAGES —**

Paraformaldehyde-fixed, paraffin embedded Human Small Intestine; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with STAT3 Polyclonal Antibody, Unconjugated (bs-20382R) 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 Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with STAT3 Polyclonal Antibody, Unconjugated (bs-20382R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.

**— SELECTED CITATIONS —**

- **[IF=3.349]** Liu C et al. Esculentoside A suppresses breast cancer stem cell growth through stemness attenuation and apoptosis induction by blocking IL-6/STAT3 signaling pathway. Phytotherapy Research.2018. WB ;Mouse&Human. 10.1002/ptr.6172

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

- **[IF=3.361]** Li C et al. Arsenic trioxide improves Treg and Th17 balance by modulating STAT3 in treatment-naïve rheumatoid arthritis patients. *Int Immunopharmacol.* 2019 Aug;73:539-551. IHC ;Mouse. 31177080
- **[IF=2.05]** Zhang M et al. Hepatoprotective effect and possible mechanism of phytoestrogen calycosin on carbon tetrachloride-induced liver fibrosis in mice. *Naunyn Schmiedebergs Arch Pharmacol.* 2020 May 30. WB ;Mouse. 32474674
- **[IF=2.083]** Wenyang YU. et al. Seasonal change of circulating leptin associated with testicular activities of the wild ground squirrels (*Citellus dauricus* Brandt). *INTEGR ZOOL.* 2022 Jul;: IHC ;Squirrel. 35841626