bs-1142R **[Primary Antibody]**

STAT5 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 6776 **SWISS:** P42229

Target: STAT5

Immunogen: KLH conjugated synthetic peptide derived from human STAT5: 61-160/794.

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 is activated by, and mediates the responses of many cell ligands, such as IL2, IL3, IL7 GM-CSF, erythropoietin, thrombopoietin, and different growth hormones. Activation of this protein in myeloma and lymphoma associated with a TEL/JAK2 gene fusion is independent of cell stimulus and has been shown to be essential for the tumorigenesis. The mouse counterpart of this gene is found to induce the expression of BCL2L1/BCL-X(L), which suggests the antiapoptotic function of this gene in cells. [provided by RefSeq, Jul 2008]

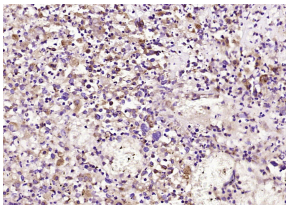
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (2ug/Test)
ICC/IF (1:100)
ELISA (1:5000-10000)

Reactivity: Human, Mouse (predicted: Rat, Rabbit, Pig, Cow, Dog, Horse)

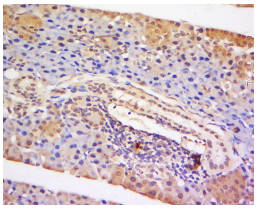
Predicted MW.: 90 kDa

Subcellular Location: Cytoplasm ,Nucleus

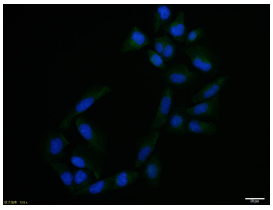
VALIDATION IMAGES



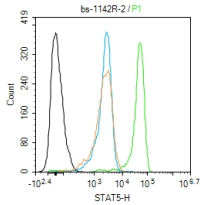
Paraformaldehyde-fixed, paraffin embedded (human endometrial carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (STAT5) Polyclonal Antibody, Unconjugated (bs-1142R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Tissue/cell: Mouse lymph tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-STAT5 Polyclonal Antibody, Unconjugated(bs-1142R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (STAT5) polyclonal Antibody, Unconjugated (bs-1142R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



Blank control:Jurkat. Primary Antibody (green

line): Rabbit Anti-STAT5 antibody (bs-1142R) Dilution: 2ug/Test; Secondary Antibody : Goat anti-rabbit IgG-FITC Dilution: 0.5ug/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 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.

SELECTED CITATIONS

- **[IF=6.1]** Fang Wang. et al.Myotonic dystrophy-related CDC42-binding kinase alpha (MRCKα) mediates methionine- and leucine-stimulated β-casein synthesis in bovine mammary epithelial cells via targeting mTOR.ANIMAL NUTRITION JOURNAL. Western blot ;Bovine. 10.1016/j.aninu.2025.01.003
- **[IF=5.561]** Xinyang Fan. et al. CEBPA-Regulated Expression of SOCS1 Suppresses Milk Protein Synthesis through mTOR and JAK2-STAT5 Signaling Pathways in Buffalo Mammary Epithelial Cells. FOODS. 2023 Jan;12(4):708 WB ;Bovine. 36832783
- **[IF=5.223]** Xinyang Fan. et al. MiR-190a regulates milk protein biosynthesis through the mTOR and JAK2–STAT5 signaling pathways by targeting PTHLH in buffalo mammary epithelial cells. J FUNCT FOODS. 2023 Mar;102:105451 WB ;Bovine. 10.1016/j.jff.2023.105451
- **[IF=4.8]** Yijun Lu. et al. Radiation induces M2 polarization of glioma-associated macrophages via upregulation of glutamine synthetases. INT IMMUNOPHARMACOL. 2025 May;154:114595 WB ;Human,Mouse. 40184814
- **[IF=5.201]** Huang Ting-Ting. et al. The Discovery of Novel BCR-ABL Tyrosine Kinase Inhibitors Using a Pharmacophore Modeling and Virtual Screening Approach. Front Cell Dev Biol. 2021 Mar;9:417 WB ;Human. 33748144