

Stat5 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10343**Specification**

Stat5 Antibody - Product Information

Application	WB, IHC, IP
Primary Accession	P51692
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	89866

Stat5 Antibody - Additional Information**Gene ID 6777**

Positive Control	Western Blot: 3T3 cell lysate and rat Kideny tissue lysate. IHC: Breast tissue
Application & Usage	Western blotting (2-10 µg/ml), immunoprecipitation (20 µg/ml) and Immunohistochemistry (5 µg/ml). However, the optimal concentrations should be determined individually. The antibody recognizes ~95 kDa Stat5 of human, mouse and rat origins. Reactivity to other species has not been tested.

Other Names

Signal transducer and activator of transcription 5, stat -5, STAT5, STAT-5, STAT 5

Target/Specificity

STAT5

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS).

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions

Precautions

Stat5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Stat5 Antibody - Protein Information**Name** STAT5B**Function**

Carries out a dual function: signal transduction and activation of transcription (PubMed:29844444). Mediates cellular responses to the cytokine KITLG/SCF and other growth factors. Binds to the GAS element and activates PRL-induced transcription. Positively regulates hematopoietic/erythroid differentiation.

Cellular Location

Cytoplasm. Nucleus. Note=Translocated into the nucleus in response to phosphorylation.

Stat5 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Stat5 Antibody - Images**Stat5 Antibody - Background**

Membrane receptor signaling by various ligands induces activation of Jak kinases which then leads to tyrosine phosphorylation of the various Stat transcription factors. Stat1 and Stat2 are induced by IFN- α and form a heterodimer which is part of the ISGF3 transcription factor complex. Although early reports indicate Stat3 activation by EGF and IL-6, it has been shown that Stat3 β appears to be activated by both while Stat3 α is activated by EGF, but not by IL-6. Highest expression of Stat4 is seen in testis and myeloid cells. IL-12 has been identified as an activator of Stat4. Stat5 is activated by prolactin and by IL-3. Stat6 is involved in IL-4 activated signaling pathways.