10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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 Cytomety
- 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. Altho μgh early reports indicate Stat3 activation by EGF and IL-6, it has been shown that Stat3β appears to be activated by both while Stat3α 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.