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Anti-STAT5 (RABBIT) Antibody

Stat5 Antibody
Catalog # ASR5413

Specification

Anti-STAT5 (RABBIT) Antibody - Product Information

Host	**Rabbit**
Conjugate	**Unconjugated**
Target Species	**Mouse**
Reactivity	**Human**
Clonality	**Polyclonal**
Application	**WB, E, I, LCI**
Application Note	**This affinity purified antibody has been tested for use in ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 91 kDa in size corresponding to phosphorylated Stat5 protein by western blotting in the appropriate cell lysate or extract.**
Physical State	**Liquid (sterile filtered)**
Buffer	**0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2**
Immunogen	**This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to residues near the carboxy terminus of mouse Stat5a protein.**
Preservative	**0.01% (w/v) Sodium Azide**

Anti-STAT5 (RABBIT) Antibody - Additional Information

Gene ID 20850

Other Names
20850

Purity
This product was affinity purified from monospecific antiserum by immunoaffinity chromatography using peptide coupled to agarose beads. This antibody is specific for mouse Stat5 protein. A BLAST analysis was used to suggest cross-reactivity with Stat5 from human, mouse and rat based on 100% homology with the immunizing sequence. Cross-reactivity with Stat5 from other sources has not been determined.

Storage Condition
Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Precautions Note
This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-STAT5 (RABBIT) Antibody - Protein Information

Name Stat5a

Synonyms Mgf, Mpf

Function
Carries out a dual function: signal transduction and activation of transcription. Mediates cellular responses to the cytokine KITLG/SCF and other growth factors. May mediate cellular responses to activated FGFR1, FGFR2, FGFR3 and FGFR4. Binds to the GAS element and activates PRL-induced transcription. Regulates the expression of milk proteins during lactation.

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

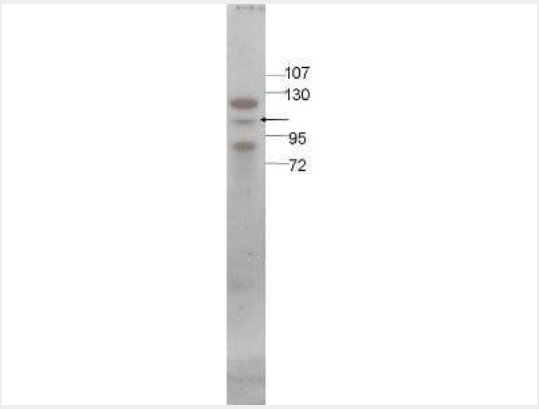
Tissue Location
In the virgin, found in most tissues except brain and muscle. During lactation, abundantly found in mammary tissue, as well as in other secretory organs such as salivary gland and seminal vesicle

Anti-STAT5 (RABBIT) 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

Anti-STAT5 (RABBIT) Antibody - Images



Western blot using Rockland's affinity purified anti-STAT5 antibody shows detection of Stat5 protein (arrowhead) in HeLa cell extract (p/n W09-000-364). Primary antibody was used at a 1:600

dilution reacted overnight at 4°C. Secondary antibody was used at 1:20,000. Molecular weight estimation was made by comparison to prestained MW markers. Identity of the upper and lower bands is unknown. Personal communication, Luanne Lukes, NCI, Bethesda, MD.

Anti-STAT5 (RABBIT) Antibody - Background

This antibody is designed, produced, and validated as part of a collaboration between Rockland and the National Cancer Institute (NCI) and is suitable for Cancer, Immunology and Nuclear Signaling research. Signal transducer and activator of transcription 5 (Stat5) belongs to a family of cytoplasmic transcription factors that can be activated (phosphorylated) by a cell surface receptor. Phosphorylation at Tyr694 is obligatory for Stat5 activation. Stat5 has two isoforms, Stat5a and Stat5b. Aberrant Stat5 activation has been implicated in the pathogenesis of chronic myelogenous leukemia, prostate and breast cancer and tumor metastasis. Stat5 is localized in the cytoplasm and upon phosphorylation at Y694 is translocated to the nucleus.