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

Anti-STAT6 pY641 (RABBIT) Antibody
STAT6 phospho Y641 Antibody
Catalog # ASR5514

Specification

Anti-STAT6 pY641 (RABBIT) Antibody - Product Information

Host	**Rabbit**
Conjugate	**Unconjugated**
Target Species	**Human**
Reactivity	**Human**
Clonality	**Polyclonal**
Application	**WB, IHC, E, I, LCI**
Application Note	**This affinity purified antibody has been tested for use in ELISA, IHC, and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 94.1kDa in size corresponding to STAT6 pY641 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	**STAT6 phospho Y641 Antibody was prepared from whole rabbit serum produced by repeated immunizations with a phosphorylated synthetic peptide corresponding to residues surrounding Tyrosine 641 of human STAT6 protein.**
Preservative	**0.01% (w/v) Sodium Azide**

Anti-STAT6 pY641 (RABBIT) Antibody - Additional Information

Gene ID 6778

Other Names
6778

Purity
This affinity purified antibody is directed against human STAT6 pY641 protein. The product was affinity purified from monospecific antiserum by immunoaffinity chromatography. A BLAST analysis was used to suggest cross-reactivity with STAT6 pY641 protein from human at 100% based on homology with the immunizing sequence. Reactivity against homologues from other sources is not known.

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-STAT6 pY641 (RABBIT) Antibody - Protein Information

Name STAT6

Function
Carries out a dual function: signal transduction and activation of transcription. Involved in IL4/interleukin-4- and IL3/interleukin-3-mediated signaling.

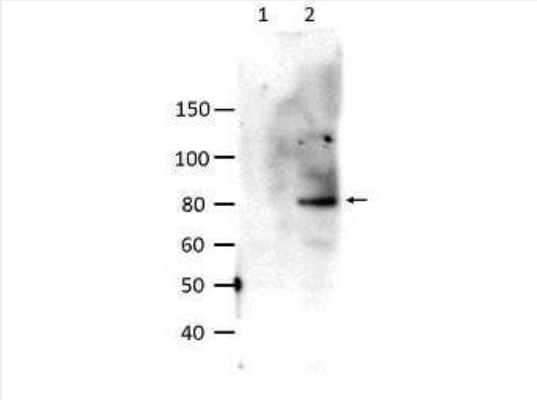
Cellular Location
Cytoplasm. Nucleus. Note=Translocated into the nucleus in response to phosphorylation

Anti-STAT6 pY641 (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-STAT6 pY641 (RABBIT) Antibody - Images



Western Blot of Rabbit anti-STAT6 pY641 antibody. Lane 1: unstimulated Hela cell lysate (p/n W09-000-364). Lane 2: IL-4 stimulated Hela cell lysate. Load: 10 µg per lane. Primary antibody: STAT6 pY641 antibody at 1:1000 for overnight at 4°C. Secondary antibody: HRP goat anti-rabbit (611-103-122) at 1:40,000 for 30 min at RT. Block: 5% Blotto (p/n B501-0500), for 30min at RT. Predicted/Observed size: 94 kDa, 90 kDa. Other band(s): unspecific bands.

Anti-STAT6 pY641 (RABBIT) Antibody - Background

Anti-STAT6 phospho Y641 Antibody is ideal to study STAT6. STAT6 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. STAT6 is involved in interleukin-4 signaling. It interacts with NCOA1 via its C-terminal LXXLL motif. Further it induces the expression of BCL2L1/BCL-X(L), which is responsible for the anti-apoptotic activity of IL4. Knockout studies in mice suggested the roles of this gene in differentiation of T helper 2 (Th2) cells, expression of cell surface markers, and class switch of immunoglobulins. Following stimulation by IL-4 and IL-3, Stat6 is activated via phosphorylation at Tyr641 and translocates to the nucleus where it regulates cytokine-induced gene expression. STAT6 research areas include Immunology, Signal Transduction and Chromatin & Nuclear Signaling.