

Datasheet for 600-401-C67S**STAT6 phospho Y641 Antibody****Overview**

Description:	Anti-STAT6 pY641 (RABBIT) Antibody - 600-401-C67S
Item No.:	600-401-C67S
Size:	25 µL
Applications:	ELISA, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	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.
Synonyms:	rabbit anti-STAT6 pY641 antibody, phosphorylated STAT6 antibody, STAT-6, STAT 6, Signal transducer and activator of transcription 6 antibody, IL-4 Stat, Interleukin-4 Stat
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	STAT6
Reactivity:	Human
PTM Specificity:	Phosphorylation

Immunogen Type:	Conjugated Peptide
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a phosphorylated synthetic peptide corresponding to residues surrounding Tyrosine Y641 of human STAT6 protein.
Purity/Specificity:	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.
Relevant Links:	• GenelD - 6778 • NCBI - NP_001171549.1 • UniProtKB - P42226

Application Details

Tested Applications:	ELISA, IHC, WB
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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:32,000
IHC:	User Optimized
WB:	1:1000

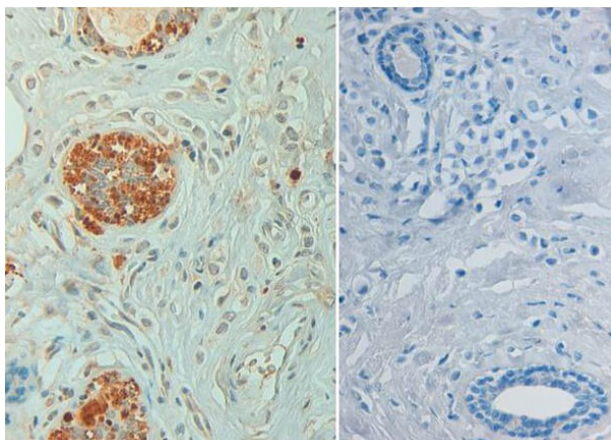
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.13 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

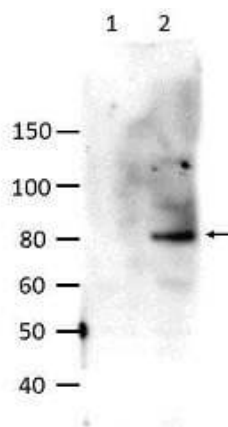
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

Immunohistochemistry of Rabbit anti STAT6 pY641
 Antibody. Tissue: Human breast carcinoma pH 9 (left) with
 negative control (right).



Western Blot

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.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.