

Anti-STAT5a Antibody

Catalog # ABO11148

Product Information

Application	WB
Primary Accession	P42229
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Signal transducer and activator of transcription 5A(STAT5A) detection. Tested with WB in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	6776
Other Names	Signal transducer and activator of transcription 5A, STAT5A, STAT5
Calculated MW	90647
Application Details	Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Cytoplasm . Nucleus . Translocated into the nucleus in response to phosphorylation.
Source	Eukaryota
Protein Name	Signal transducer and activator of transcription 5A
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human STAT5a(735-751aa YNMYPQNPDHVLDDQDGE).
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20° C for one year. After reconstitution, at 4° C for one month. It can also be aliquotted and stored frozen at -20° C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the transcription factor STAT family.

Protein Information

Name	STAT5A
Synonyms	STAT5
Function	Carries out a dual function: signal transduction and activation of transcription. Mediates cellular responses to the cytokine KITLG/SCF and other growth factors. Mediates cellular responses to ERBB4. 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

Background

STAT5(Signal transducer and activator of transcription 5) also known as STAT5A, MGF, is a protein that serve the dual function of signal transducers and activators of transcription in cells exposed to signaling polypeptides. Hou et al.(1995) □ cloned the human □STAT5 □ cDNA from an umbilical vein endothelial cell library and found that it encodes a 794-amino acid polypeptide with a predicted mass of approximately 90.5 kD. To analyze the possible role of □STAT5 □ in human GH-induced proliferation, □Friedrichsen et al.(2001) □ expressed a dominant-negative □STAT5 □ mutant, STAT5A-delta-749, in INS-1 cells under the control of a doxycycline-inducible promoter by stable transfection. □Chromatin immunoprecipitation analysis confirmed direct binding of □STAT5 □ to the HIF2A promoter 344 bp upstream of the HIF2A start site. □STAT5 □ overexpression independently resulted in erythroid commitment in megakaryocytic-erythroid progenitors, which was abrogated by knockdown of GATA1. □STAT5 □ is responsible for the immediate-early induction of the long isoform of the BCL2-related protein in erythroid cells through direct binding to the promoter of the BCLX gene. □

Images



Anti-STAT5a antibody, ABO11148, Western blotting
Lane 1: HELA Cell Lysate
Lane 2: COLO320 Cell Lysate
Lane 3: JURKAT Cell Lysate
Lane 4: CEM Cell Lysate

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.