

Product datasheet for **AP08808PU-N**

Stat5a pTyr694 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA: 1/25000. Immunohistochemistry on Paraffin Sections: 20 - 40 µg/ml. Western Blot: 1/500 - 1/2000.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to residues surrounding Tyr694 of Mouse STAT5 alpha protein
Specificity:	This phosphospecific polyclonal antibody reacts with Stat5a pTyr694 and shows minimal reactivity by ELISA against the non-phosphorylated form of the immunizing peptide.
Formulation:	0.02M Potassium Phosphate, 0.15M Sodium Chloride, pH 7.2 with 0.01% Sodium Azide as preservative State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	signal transducer and activator of transcription 5A
Database Link:	Entrez Gene 6776 Human Entrez Gene 24918 Rat Entrez Gene 20850 Mouse P42230



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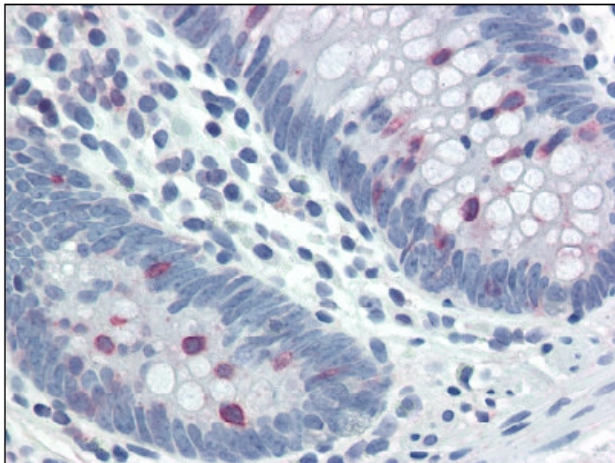
Background:

STATs, such as STAT5, are proteins that serve the dual function of signal transducers and activators of transcription in cells exposed to signaling polypeptides. 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. STAT5 is activated by, and mediates the responses of many cell ligands, such as IL2, IL3, IL7 GM-CSF, erythropoietin, thrombopoietin, and different growth hormones.

STAT5A and STAT5B knockout mice show important roles in prolactin-mediated mammary gland development and growth hormone-mediated induction of sexual dimorphism, respectively. Abnormal activity of certain STAT family members, particularly STAT3 and STAT5, is associated with a wide variety of human malignancies, including hematologic, breast, head and neck, and prostate cancers. STAT5A and STAT6, are selectively activated when the heart is subjected to ischemic injury, whereas activation of STAT3 and STAT5A is involved in myocardial hypertrophy. STAT5 and STAT3, as these two STAT molecules are required for normal breast development and involution, respectively, and may play an important role in breast carcinogenesis.

Synonyms:

STAT-5, STAT-5A, Mammary gland factor, MGF, STAT-5B

Product images:

Colon: Formalin-Fixed Paraffin-Embedded (FFPE)