

Product datasheet for AP01696PU-N

STAT5A pTyr694 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IHC, WB

Recommended Dilution: Western Blot: 1/500-1/1000.

Immunohistochemistry on paraffin sections: 1/50-1/200.

Reactivity: Human, Mouse, Rat

Host: Rabbit

Clonality: Polyclonal

Specificity: This antibody detects endogenous levels of STAT5A pTyr694 protein.

Formulation: Phosphate buffered saline (PBS), pH~7.2 containing 0.05% Sodium Azide as preservative.

State: Aff - Purified

State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE).

Concentration: 1.0 mg/ml

Purification: Affinity Chromatography using epitope-specific immunogen.

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.

Predicted Protein Size: ~ 91 kDa

Gene Name: signal transducer and activator of transcription 5A

Database Link: Entrez Gene 6776 Human

P42229



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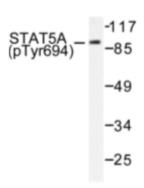
Background:

Stat5 (signal transducers and activators of transcription 5) is important in regulating T cell functions involving the receptors for Interleukin-2 (IL-2). IL-2 stimulates the rapid phosphorylation of both serine and tyrosine residues of Stat5 α and Stat5 β in human T lymphocytes and in several IL-2-responsive lymphocytic cell lines. IL-2 differentially induces serine phosphorylation of Stat5 α and Stat5 β on Ser 726 and Ser 731, respectively. Stat5 β is preferentially phosphorylated and displays more protracted serine phosphorylation kinetics than Stat5 α . Both the acid-rich region and the COOH terminus of IL-2R β can independently mediate IL-2-induced Stat5 α / β serine phosphorylation, suggesting that Stat5 α / β serine phosphorylation occurs at a postreceptor level. Stat5 α is phosphorylated on Tyr 694 in a prolactin-sensitive manner, whereas serine phosphorylation is constitutive. Activation of Stat5 by IL-2 may help govern the biological effects of IL-2 during the immune response. Ser 779 is constitutively phosphorylated in the mammary gland, and Ser 725 phosphorylation influences prolactin-stimulated in vitro DNA binding activity.

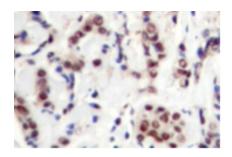
Synonyms:

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

Product images:



Western blot (WB) analysis of STAT5A ptyr694 antibody (Cat.-No.: AP01696PU-N) in extracts from HeLa cells treated with EGF.



Immunohistochemistry (IHC) analyzes of STAT5A ptyr694 antibody (Cat.-No.: AP01696PU-N) in paraffin-embedded human breast carcinoma tissue.