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Product datasheet for TA324197

STAT4 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:500-1000, IHC: 1:50-100
Reactivity:	Human, Mouse, Rat
Modifications:	Phospho-specific
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Peptide sequence around phosphorylation site of tyrosine 693 (K-G-Y(p)-V-P) derived from Human STAT4.
Formulation:	PBS pH7.3, 0.05% NaN3, 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	86 kDa
Gene Name:	signal transducer and activator of transcription 4
Database Link:	NP_003142 Entrez Gene 20849 MouseEntrez Gene 367264 RatEntrez Gene 6775 Human Q14765

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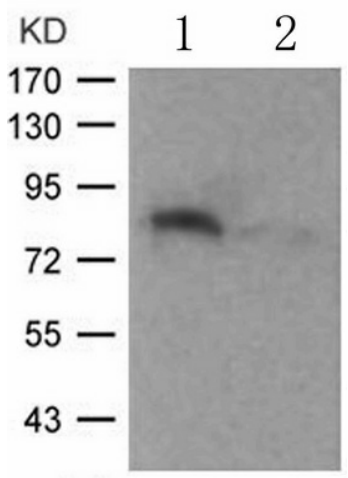
Background: The protein encoded by this gene is a member of the STAT family of transcription factors. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein is essential for mediating responses to IL12 in lymphocytes, and regulating the differentiation of T helper cells. Mutations in this gene may be associated with systemic lupus erythematosus and rheumatoid arthritis. Alternate splicing results in multiple transcript variants that encode the same protein.

Synonyms: SLEB11

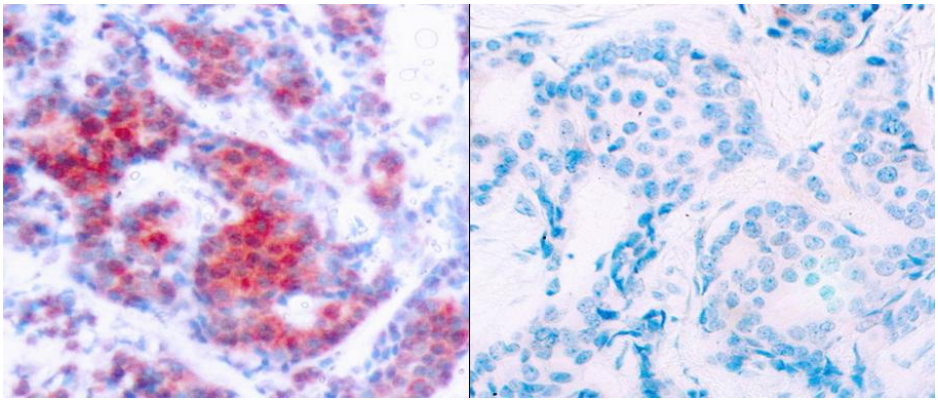
Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Jak-STAT signaling pathway

Product images:



Predicted band size: 86 kDa. Positive control: HepG2 cells treated with IL-4 lysate. Recommended dilution: 1/ 500-1000. (Gel: 8%SDS-PAGE Lane 1: HepG2 cells treated with IL-4 lysate Lane 2: Untreated HepG2 cells lysate Lysates: 30 ug per lane Primary antibody: 1/500 dilution Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution Exposure time: 1 minute)



Predicted cell location: Cytoplasm; Nucleus. Positive control: Human breast carcinoma tissue. Recommended dilution: 1/ 50-100 The image on the left is immunohistochemistry of paraffin-embedded human breast carcinoma tissue using STAT4 (Phospho-Tyr693) antibody at dilution 1/50, on the right is treated with the synthetic peptide. (Original magnification:x200)