Stat4 (Phospho Tyr693) Rabbit pAb

CatalogNo: YP0252 Orthogonal Validated Comparable Abs

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat,Monkey

Applications
- WB,IHC,IF,IP,ELISA

MW
- 86kD (Observed)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:100-1:300
IP 2-5 ug/mg lysate
ELISA 1:5000
IF 1:50-200

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human STAT4 around the phosphorylation site of Tyr693. AA range:660-709

Specificity	Phospho-Stat4 (Y693) Polyclonal Antibody detects endogenous levels of Stat4 protein only when phosphorylated at Y693.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):KGyVP

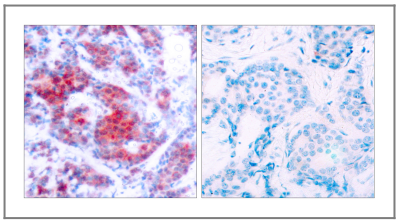
Target Information

Gene name	STAT4
Protein Name	Signal transducer and activator of transcription 4

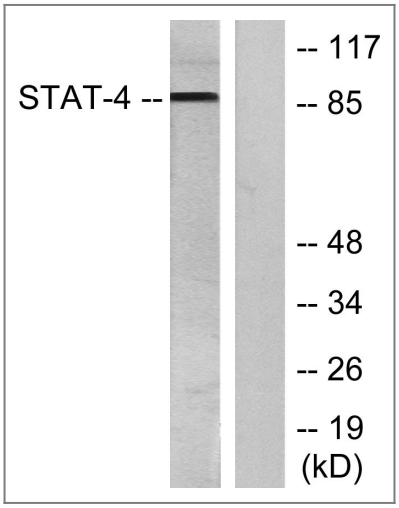
Organism	Gene ID	UniProt ID
Human	6775;	Q14765;
Mouse	20849;	P42228;

Cellular Localization	Cytoplasm. Nucleus. Translocated into the nucleus in response to phosphorylation.
Tissue specificity	Brain,Kidney,Pancreas,Spleen,Testis,Uterus,
Function	Disease:Genetic variations in STAT4 are associated with susceptibility to rheumatoid arthritis (RA) [MIM:180300]. Rheumatoid arthritis is a complex, multifactorial disorder. It is one of the most common autoimmune diseases and it is characterized by inflammation of synovial tissue and joint destruction.,Disease:Genetic variations in STAT4 are associated with susceptibility to systemic lupus erythematosus type 11 (SLEB11) [MIM:612253]. Systemic lupus erythematosus (SLE) is a chronic autoimmune disease with a complex genetic basis. SLE is an inflammatory, and often febrile multisystemic disorder of connective tissue characterized principally by involvement of the skin, joints, kidneys, and serosal membranes. It is thought to represent a failure of the regulatory mechanisms of the autoimmune system.,Function:Carries out a dual Function: signal transduction and activation of transcription. Involved in IL12 signaling.,PTM:Tyrosine phosphorylated. Serine phosphorylation is also required for maximal transcriptional activity.,similarity:Belongs to the transcription factor STAT family.,similarity:Contains 1 SH2 domain.,subcellular location:Translocated into the nucleus in response to phosphorylation.,subunit:Forms a homodimer or a heterodimer with a related family member (By similarity). The SH2 domain interacts, in vitro, with IL12RB2 via a short cytoplasmic domain.,

Validation Data



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using STAT4 (Phospho-Tyr693) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HeLa cells treated with IL-4, using STAT4 (Phospho-Tyr693) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

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Please scan the QR code to access additional product information: **Stat4 (Phospho Tyr693) Rabbit pAb**