



Stat3 Polyclonal Antibody

E20-53451

Catalog Number:E20-53451

Product name:Stat3 Polyclonal Antibody

Amount:100ul

Applications:WB,IHC-p

Reactivity:.,Human

Gene Name:STAT3

Protein Name:Signal transducer and activator of transcription 3

Human Gene Id:6774

Human Swiss Prot No:P40763

Mouse Swiss Prot No:P42227

Immunogen:Recombinant Protein of Stat3

Specificity:The antibody detects endogenous Stat3 protein.

Formulation:PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.

Source:Rabbit

Dilution:WB: 1:1000-2000 IHC: 1:200-500

Purification:The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Storage Stability:-20°C/1 year

Other NameS:STAT3; APRF; Signal transducer and activator of transcription 3; Acute-phase response factor

Observed Band(KD):79,86

Background:signal transducer and activator of transcription 3(STAT3) Homo sapiens The protein encoded by this gene is a member of the STAT protein family. 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 activated through phosphorylation in response to various cytokines and growth factors

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including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. This protein mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of this protein. PIAS3 protein is a specific inhibitor of this protein.

Function: Defects in STAT3 are the cause of hyperimmunoglobulin E recurrent infection syndrome autosomal dominant (AD-HIES) [MIM:147060]; also known as hyper-IgE syndrome or Job syndrome. AD-HIES is a rare disorder of immunity and connective tissue characterized by immunodeficiency, chronic eczema, recurrent Staphylococcal infections, increased serum IgE, eosinophilia, distinctive coarse facial appearance, abnormal dentition, hyperextensibility of the joints, and bone fractures. Transcription factor that binds to the interleukin-6 (IL-6)-responsive elements identified in the promoters of various acute-phase protein genes.

Subcellular Location: nuclear chromatin, nucleus, nucleoplasm, cytoplasm, mitochondrial inner membrane, cytosol, plasma membrane, RNA polymerase II transcription factor complex.

Expression: Epithelium, Kidney, Liver, Pancreas, Placenta.

