



Stat1 Polyclonal Antibody

E20-53441

Catalog Number:E20-53441**Product name:**Stat1 Polyclonal Antibody**Amount:**100ul**Applications:**WB,IHC-p**Reactivity:**Human,Mouse,Rat**Gene Name:**STAT1**Protein Name:**Signal transducer and activator of transcription 1-alpha/beta**Human Gene Id:**6772**Human Swiss Prot No:**P42224**Mouse Swiss Prot No:**P42225**Immunogen:**Synthesized peptide derived from the Internal region of human Stat1.**Specificity:**The antibody detects endogenous Stat1 protein.**Formulation:**PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.**Source:**Rabbit**Dilution:**Western Blot: 1/500 - 1/2000.IHC-p:1:50-300. Not yet tested in other applications.**Purification:**The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.**Storage Stability:**-20°C/1 year**Other Name:**STAT1; Signal transducer and activator of transcription 1-alpha/beta; Transcription factor ISGF-3 components p91/p84**Observed Band(KD):**84,91**Background:**signal transducer and activator of transcription 1(STAT1) 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 can be activated by various ligands including interferon-alpha, interferon-gamma, EGF, PDGF

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and IL6. This protein mediates the expression of a variety of genes, which is thought to be important for cell viability in response to different cell stimuli and pathogens. Two alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2008].

Function:disease:Defects in STAT1 are a cause of mendelian susceptibility to mycobacterial disease (MSMD) [MIM:209950]; also known as familial disseminated atypical mycobacterial infection. This rare condition confers predisposition to illness caused by moderately virulent mycobacterial species, such as *Bacillus Calmette-Guerin* (BCG) vaccine and environmental non-tuberculous mycobacteria, and by the more virulent *Mycobacterium tuberculosis*. Other microorganisms rarely cause severe clinical disease in individuals with susceptibility to mycobacterial infections, with the exception of *Salmonella* which infects less than 50% of these individuals.

Subcellular Location:nuclear chromatin,nucleus,nucleoplasm,nucleolus, cytoplasm, cytosol, cell-cell adherens junction, axon, dendrite, perinuclear region of cytoplasm.

Expression:B-cell, Brain, Retina, Testis.

