

Basic Information

Product Name	Anti-STAT1 Antibody (Clone#BEE-19)
Gene Name	STAT1
Source	Rabbit
Clonality	Monoclonal
Isotype	IgG
Species Reactivity	human, mouse
Tested Application	WB, IHC, IP, FCM
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
Immunogen	A synthesized peptide derived from human STAT1
Concentration	500 ug/ml
Purification	Affinity-chromatography
Observed MW	91 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC):1:50-200 ImmunoPrecipitation (IP): 1:20 Flow Cytometry (FCM): 1:20

Storage

12 months from date of receipt, -20°C as supplied.

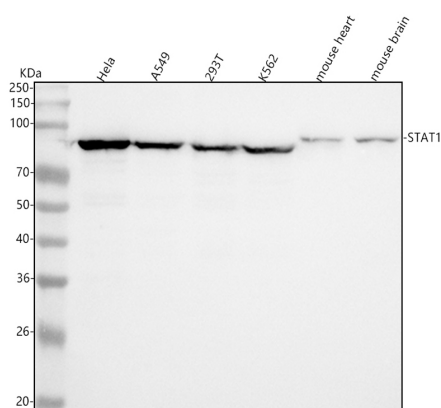
Background Information

Signal transducer and activator of transcription 1 (STAT1) is a transcription factor which in humans is encoded by the STAT1 gene. 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 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.

Reference

Anti-STAT1 Antibody (Clone#BEE-19)被引用在2文献中。

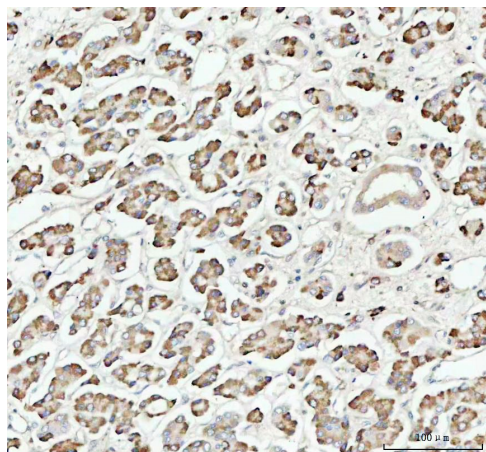
Selected Validation Data



Western blot analysis of anti-STAT1 antibody (BM4110). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human HeLa whole cell lysates,
 Lane 2: human A549 whole cell lysates,
 Lane 3: human 293T whole cell lysates,
 Lane 4: human K562 whole cell lysates,
 Lane 5: mouse heart tissue lysates,
 Lane 6: mouse brain tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-STAT1 antigen affinity purified monoclonal antibody (BM4110) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for STAT1 at approximately 84, 87 kDa. The expected band size for STAT1 is at 87 kDa.



IHC analysis of STAT1 using anti-STAT1 antibody (BM4110). STAT1 was detected in a paraffin-embedded section of human liver cancer tissue. The tissue section was incubated with rabbit anti-STAT1 Antibody (BM4110) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.