

Basic Information

Product Name	Anti-STAT1 Antibody (Clone#HBG-19)	
Gene Name	STAT1	
Source	Rabbit	
Clonality	Monoclonal	
Isotype	IgG	
Species Reactivity	human	
Tested Application	WB, IHC, ICC/IF, 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 alpha	
Concentration	500 ug/ml	
Purification	Affinity-chromatography	
Observed MW	91 kDa	
Dilution Ratios	Western blot (WB):	1:1000-5000
	Immunohistochemistry (IHC):	1:50-200
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-200
	ImmunoPrecipitation (IP):	1:20
	Flow Cytometry (FCM):	1:20

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

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#HBG-19)被引用在1文献中。

Selected Validation Data

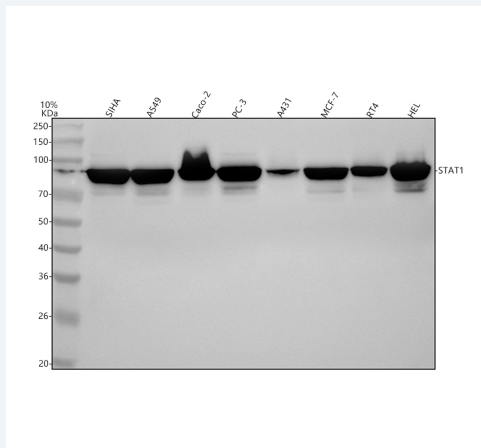


Figure 1. Western blot analysis of anti-STAT1 antibody (BM4697). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human SiHa whole cell lysates,
Lane 2: human A549 whole cell lysates,
Lane 3: human Caco-2 whole cell lysates,
Lane 4: human PC-3 whole cell lysates,
Lane 5: human A431 whole cell lysates,
Lane 6: human MCF-7 whole cell lysates,
Lane 7: human RT4 whole cell lysates,
Lane 8: human HEL whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-STAT1 antigen affinity purified monoclonal antibody (BM4697) 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 91 kDa. The expected band size for STAT1 is at 87 kDa.