Product datasheet

Anti-STAT3 (Phospho-S727) Antibody (Clone#CAA-19)

Catalog Number: *BM4169*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-STAT3 (Phospho-S727) Antibody (Clone#CAA-19)
Gene Name	STAT3
Source	Rabbit
Clonality	Monoclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF, IP
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 Phospho-STAT3 (S727)
Concentration	500 ug/ml
Purification	Affinity-chromatography
Observed MW	88 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-200 Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-200 ImmunoPrecipitation (IP): 1:20

Storage

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

Background Information

The transcription factor, signal transducer and activator of transcription-3 (STAT-3) is the most pleiotropic member of the signal transducer and activator of transcription (STAT) family of transcription factors and mediates pivotal responses for the cytokine family. The mouse STAT3 gene contains 24 exons and spans 30 kb. The translation initiation codon is in exon 2, and the stop codon is in exon 24. STAT3 is mapped to 17q21. It contributes to various physiological processes. Hepatic STAT-3 signaling is thus essential for normal glucose homeostasis and may provide new therapeutic targets for diabetes mellitus.

Reference

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Anti-STAT3 (Phospho-S727) Antibody (Clone#CAA-19)被引用在14文献中。

Selected Validation Data

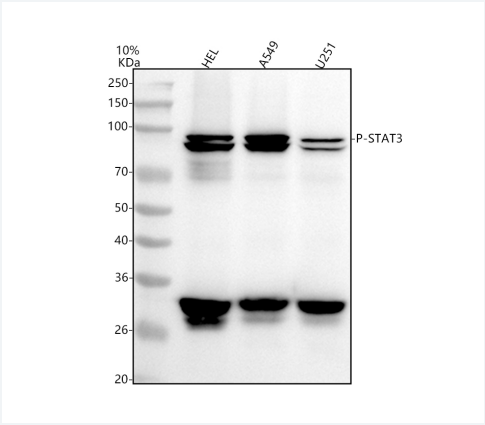

Figure 1. Western blot analysis of anti-STAT3 (Phospho-S727) antibody (BM4169). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human HEL whole cell lysates,
Lane 2: human A549 whole cell lysates,
Lane 3: human U251 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-STAT3 (Phospho-S727) antigen affinity purified monoclonal antibody (BM4169) 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 STAT3 (Phospho-S727) at approximately 88 kDa. The expected band size for STAT3 (Phospho-S727) is at 88 kDa.

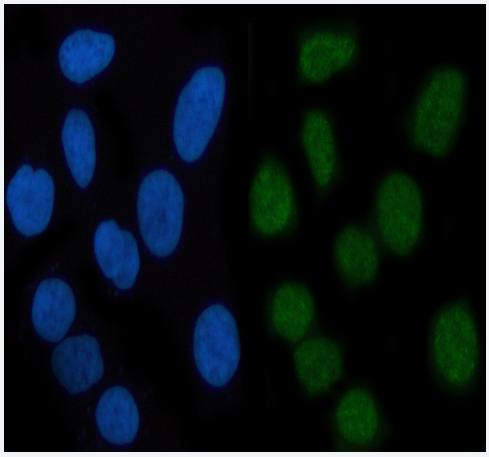

Figure 2. IF analysis of STAT3 using anti-STAT3 antibody (BM4169).
STAT3 was detected in an immunocytochemical section of Hela cells. The section was incubated with rabbit anti-STAT3 Antibody (BM4169) at a dilution of 1:100. DyLight®488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).