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Delivering You Today's Innovations for
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Purified Mouse anti-Human STAT1 (phospho-Ser727) Monoclonal Antibody

CLX187AP

Lot:

Clone:

PSM1

Isotype:

Mouse IgG1

Specificity:

The antibody PSM1 recognizes transcriptional factor STAT1 (91 kDa) activated by phosphorylation at Ser727.

Immunogen:

STAT1 peptide sequence 721-733 (Ser727 phosphorylated).

Species Reactivity:

Human, Other not tested

Application:

**Immunoprecipitation
Western Blotting**

Purity:

> 95% (by SDS-PAGE)

Purification:

Purified from hybridoma culture supernatant by protein-A affinity chromatography.

Concentration:

1 mg/ml

Storage Buffer:

Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

Storage / Stability:

Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

Background:

STAT1 (signal transducer and activator of transcription 1) is a transcription factor that plays important roles in growth arrest, apoptosis promoting and tumour suppression. After ligation of cytokine receptors STAT1 becomes phosphorylated on Tyr701 by Janus kinase JAK1 or JAK2, dimerizes, translocates to nucleus and contacts DNA. STAT1-STAT2 heterodimers serve as more potent transcriptional inducers than STAT1 homodimers. STAT1 is also phosphorylated on Ser727 by MAPK pathway, independently of tyrosine phosphorylation. However, the both modifications are important for its maximal transcriptional activity. On the other hand, STAT1 phosphorylated on Ser727 is targeted for proteasomal degradation.

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