

Mouse anti-STAT 1, clone SM1 (Monoclonal)

Clone no. SM1

MONOSAN

Product name	Mouse anti-STAT 1, clone SM1 (Monoclonal)
Host	Mouse
Applications	IP, WB, IHC-P
Species reactivity	Mouse, Human
Conjugate	-
Immunogen	STAT1 peptide sequence 721-733 (DNLLPMSPEEFDE).
Isotype	IgG2b
Clonality	Monoclonal
Clone number	SM1
Size	0.1 mg
Concentration	1 mg/ml
Format	-
Storage buffer	Phosphate buffered saline (PBS) solution with 15 mM sodium azide
Storage until expiry date	2-8°C

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES

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Additional info

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.

References

1. -
2. -
3. -
4. -
5. -

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