



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Technically
Speaking

CEDARLANE[®]
www.cedarlanelabs.com



Delivering You Today's Innovations for
the Science of Tomorrow™

Purified Mouse anti-STAT1 Monoclonal Antibody

CLX186AP

Lot:

Size: 0.1 mg

Clone: SM1

Isotype: Mouse IgG2b

Specificity: The antibody SM1 recognizes an epitope included within amino acids 721-733 of STAT1, a 91 kDa transcriptional factor involved in a variety of systems including antiviral responses and interferon alpha (IFN-alpha) and gamma (IFN-gamma) signal transduction.

Immunogen: STAT1 peptide sequence 721-733 (DNLLPMSPEEFDE).

Species Reactivity: Human, Mouse, Other not tested

Application: **Immunoprecipitation**
Western Blotting
Immunohistochemistry (paraffin sections)
Recommended dilution: 5 mg/ml
Positive tissue: lung macrophages

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.

Continued...

Visit our website for your local distributor.

CEDARLANE[®]



www.cedarlanelabs.com

An ISO 9001:2000 and ISO 13485:2003
registered company.

In CANADA: Toll Free: 1-800-268-5058

4410 Paletta Court, Burlington, ON L7L 5R2 ph: (289) 288-0001, fax: (289) 288-0020
e-mail: general@cedarlanelabs.com

In the USA: Toll Free: 1-800-721-1644

1210 Turrentine Street, Burlington, NC 27215 ph: (336) 513-5135, fax: (336) 513-5138
e-mail: service@cedarlanelabs.com

References:

*Kovarik P, Stoiber D, Eyers PA, Menghini R, Neiningner A, Gaestel M, Cohen P, Decker T.: Stress-induced phosphorylation of STAT1 at Ser727 requires p38 mitogen-activated protein kinase whereas IFN-gamma uses a different signaling pathway. Proc Natl Acad Sci U S A. 1999 Nov 23;96(24):13956-61.

*Frank D.A.: STAT signaling in the pathogenesis and treatment of cancer. Mol Med. 1999 Jul;5(7):432-56.

*Bromberg J, Darnell J.E. Jr: The role of STATs in transcriptional control and their impact on cellular function. Oncogene. 2000 May 15;19(21):2468-73.

*Soond SM, Townsend PA, Barry SP, Knight RA, Latchman DS, Stephanou A.: ERK and the E3 ubiquitin ligase beta TRCP targets STAT1 for degradation. J Biol Chem. 2008 Mar 31

*Kovarik J, Boudny V, Kocak I, Lauerova L, Fait V, Vagundova M.: Malignant melanoma associates with deficient IFN-induced STAT 1 phosphorylation. Int J Mol Med. 2003 Sep;12(3):335-40.

*Boudny V, Kocak I, Lauerova L, Kovarik J.: Interferon inducibility of STAT 1 activation and its prognostic significance in melanoma patients. Folia Biol (Praha). 2003;49(4):142-6.

This product is made available in collaboration with Exbio Praha, a.s.

Laboratory Reagent For Research Use Only