

# Product Datasheet

## STAT1 Antibody (SM1) - BSA Free NB500-514

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

[www.novusbio.com](http://www.novusbio.com)



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### Publications: 2

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**NB500-514****STAT1 Antibody (SM1) - BSA Free**

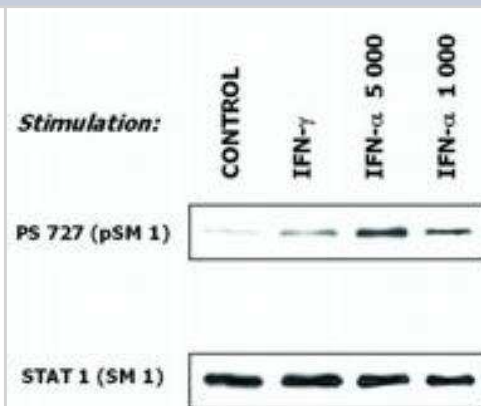
<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C. Do not freeze.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	SM1
<b>Preservative</b>	15mM Sodium Azide
<b>Isotype</b>	IgG2b
<b>Purity</b>	Protein A purified
<b>Buffer</b>	Phosphate buffered saline (PBS), pH 7.4
<b>Target Molecular Weight</b>	91 kDa

<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Mouse STAT1 Antibody (SM1) - BSA Free (NB500-514) is a monoclonal antibody validated for use in IHC, WB and IP. Anti-STAT1 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	6772
<b>Gene Symbol</b>	STAT1
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information.
<b>Specificity/Sensitivity</b>	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.
<b>Immunogen</b>	STAT1 peptide sequence 721-733 (DNLLPMSPEEFDE).

<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1-2 ug/ml, Immunohistochemistry 1:10-1:500, Immunoprecipitation 1:50, Immunohistochemistry-Paraffin 5 ug/ml
<b>Application Notes</b>	Immunohistochemistry (paraffin sections) positive tissue: lung macrophages.

## Images

Immunoprecipitation: STAT1 Antibody (SM1) [NB500-514] - Fig. 1: Induction of phosphorylation of STAT1 at Ser727 in human malignant melanoma cells (short-term culture derived from a patient) in response to interferons. Subconfluent cells were serum-starved before exposure to activation dosages of IFN-gamma (10 ng/ml) and IFN-alpha (1000 IU/ml and 5000 IU/ml). Western blotting analysis of cell extracts shows detection of phosphorylated STAT1 (Ser727) by the antibody PSM1 (upper panel) and total STAT1 level by the antibody SM1 (lower panel).



## Publications

Boudny V, Kocak I, Lauerova L, Kovarik J. Interferon inducibility of STAT 1 activation and its prognostic significance in melanoma patients. *Folia Biol (Praha)*;49(4):142-6. 2003-01-01 [PMID: 12971583]

Kovarik J, Boudny V, Kocak I et al. Malignant melanoma associates with deficient IFN-induced STAT 1 phosphorylation. *Int J Mol Med*;12(3):335-40. 2003-09-01 [PMID: 12883649]



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### **Products Related to NB500-514**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP2-27231	Mouse IgG2b Isotype Control (MPC-11)

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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