

For Research Use Only

# SAT2 Polyclonal antibody

Catalog Number: 16246-1-AP

2 Publications



## Basic Information

<b>Catalog Number:</b> 16246-1-AP	<b>GenBank Accession Number:</b> BC011751	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 700 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 112483	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q96F10	
<b>Isotype:</b> IgG	<b>Full Name:</b> spermidine/spermine N1-acetyltransferase family member 2	
<b>Immunogen Catalog Number:</b> AG9179	<b>Calculated MW:</b> 170 aa, 19 kDa	
	<b>Observed MW:</b> 19 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB	<b>WB :</b> rat liver tissue,
<b>Species Specificity:</b> human, mouse, rat	<b>IHC :</b> human cervical cancer tissue,
<b>Cited Species:</b> mouse	

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

Spermidine/spermine N1-acetyltransferase 2 (SAT2) is a short-lived polyamine catabolic enzyme inducible by polyamines and polyamine analogues. Human SAT2 contains the highly conserved acetyl-CoA-binding domain and displays coactivator function to enhance NF- $\kappa$ B-dependent transcription and enhances TNF $\alpha$ -induced NF- $\kappa$ B activity (PMID: 17875644). Human SAT1 and SAT2 proteins, which share 46% amino acid sequence identity and are clearly homologous, both interact with HIF-1 $\alpha$  and both promote the ubiquitination and degradation of HIF-1 $\alpha$  (PMID: 17011643).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yi Xian	28578006	Toxicol In Vitro	WB
Xiao-Hui Tang	36565851	Neuropharmacology	WB

## Storage

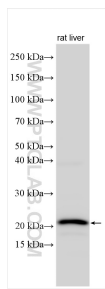
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

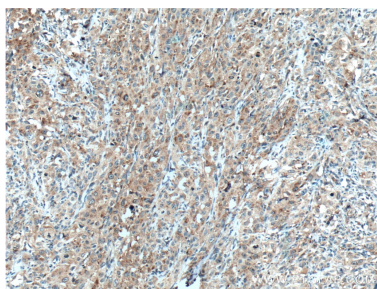
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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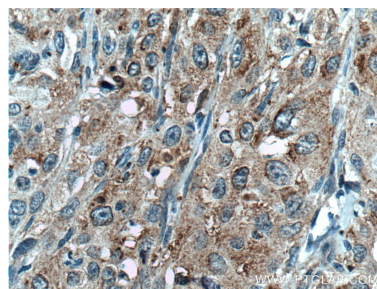
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 16246-1-AP (SAT2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 16246-1-AP (SAT2 antibody) at dilution of 1:100 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 16246-1-AP (SAT2 antibody) at dilution of 1:100 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).