For Research Use Only

SUPT16H Polyclonal antibody

Catalog Number:20551-1-AP 4 Publications

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Basic Information

Catalog Number:
20551-1-AP

Size:
150ul , Concentration: 500 μg/ml by Nanodrop and 427 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_007192

GeneID (NCBI):
11198

UNIPROT ID:
Q9Y5B9

Full Name:
suppressor of Ty 16 homolog (S. cerevisiae)

Calculated MW:
120 kDa

Observed MW:
140 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:20-1:200

Applications

Tested Applications:
WB, IP, IHC, ELISA

Cited Applications:
WB, IHC

Species Specificity:
human, mouse

Cited Species:
human, mouse

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

Positive Controls:

WB : mouse brain tissue,

IP : mouse brain tissue,

IHC : human tonsillitis tissue, human spleen tissue

Background Information

SUPT16H, also named as FACT140, FACTP140, SPT16 and CDC68, belongs to the peptidase M24 family and SPT16 subfamily. SUPT16H is a component of the FACT complex, a general chromatin factor that acts to reorganize nucleosomes. The FACT complex is involved in multiple processes that require DNA as a template such as mRNA elongation, DNA replication and DNA repair. During transcription elongation the FACT complex acts as a histone chaperone that both destabilizes and restores nucleosomal structure. It facilitates the passage of RNA polymerase II and transcription by promoting the dissociation of one histone H2A-H2B dimer from the nucleosome, then subsequently promotes the reestablishment of the nucleosome following the passage of RNA polymerase II. The FACT complex is probably also involved in phosphorylation of 'Ser-392' of p53/TP53 via its association with CK2 (casein kinase II). It also involved in vitamin D-coupled transcription regulation via its association with the WINAC complex, a chromatin-remodeling complex recruited by vitamin D receptor (VDR), which is required for the ligand-bound VDR-mediated transrepression of the CYP27B1 gene. The antibody is specific to SUPT16H.

Notable Publications

Author	Pubmed ID	Journal	Application
Ikumi Ohsawa	33749947	FASEB J	IHC
Heather J Szerlong	25584861	J Mol Biol	WB
Kenneth Stapleton	32078363	Arterioscler Thromb Vasc Biol	

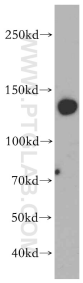
Storage

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

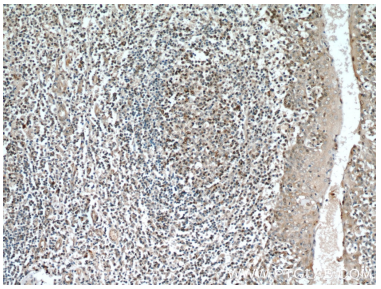
*** 20ul sizes contain 0.1% BSA

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)
E: proteintech@ptglab.com
W: ptglab.com

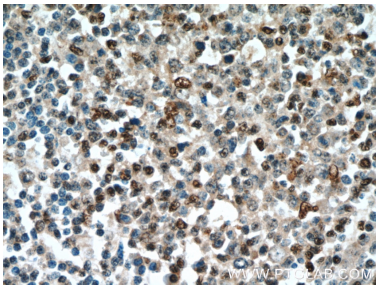
Selected Validation Data



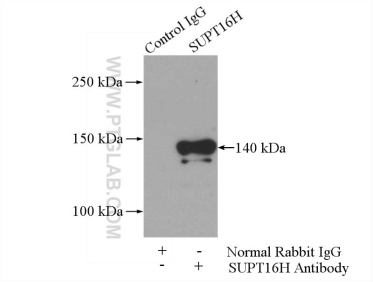
mouse brain tissue were subjected to SDS PAGE followed by western blot with 20551-1-AP (SUPT16H antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis using 20551-1-AP (SUPT16H antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human tonsillitis using 20551-1-AP (SUPT16H antibody) at dilution of 1:100 (under 40x lens).



IP result of anti-SUPT16H (IP:20551-1-AP, 4ug; Detection:20551-1-AP 1:1000) with mouse brain tissue lysate 3440ug.