

## SUPT16H Monoclonal antibody

Catalog Number: 68243-1-Ig

Featured Product

## Basic Information

## Catalog Number:

68243-1-Ig

## Size:

1000 ug/ml

## Source:

Mouse

## Isotype:

IgG1

## Immunogen Catalog Number:

AG29459

## 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:

135 kDa

## Purification Method:

Protein G purification

## CloneNo.:

1E4C4

## Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:500-1:2000

IF/ICC 1:500-1:2000

## Applications

## Tested Applications:

WB, IHC, IF/ICC, ELISA

## Species Specificity:

human, mouse, rat

**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**: LNCaP cells, MCF-7 cells, HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells, RAW 164.7 cells

**IHC**: human colon tissue,

**IF/ICC**: HeLa cells,

## 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.

## 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

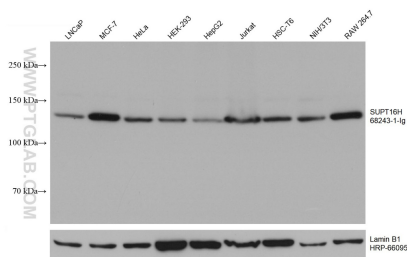
For technical support and original validation data for this product please contact:

T: 4006900926

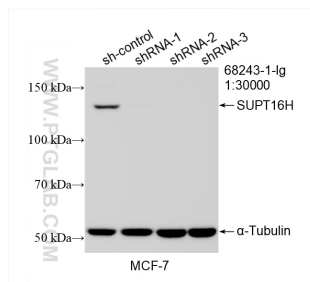
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

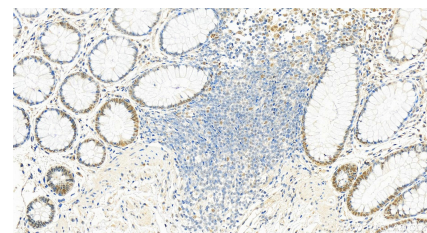
## Selected Validation Data



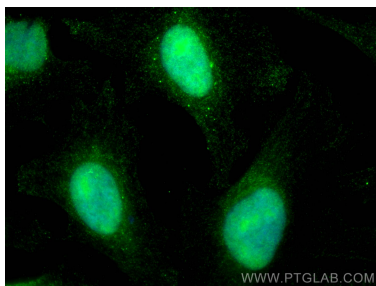
Various lysates were subjected to SDS PAGE followed by western blot with 68243-1-Ig (SUPT16H antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Lamin B1 Monoclonal antibody (HRP-66095) as loading control.



WB result of SUPT16H antibody (68243-1-Ig; 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SUPT16H transfected MCF-7 cells.



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 68243-1-Ig (SUPT16H antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using SUPT16H antibody (68243-1-Ig, Clone: 1E4C4) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).