

For Research Use Only

SMC4 Polyclonal antibody

Catalog Number: 24758-1-AP **4 Publications**



Basic Information

Catalog Number: 24758-1-AP	GenBank Accession Number: BC106033	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 650 µg/ml by Nanodrop and 413 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 10051	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:20-1:200 IF 1:20-1:200
Source: Rabbit	Full Name: structural maintenance of chromosomes 4	
Isotype: IgG	Calculated MW: 1288 aa, 147 kDa	
Immunogen Catalog Number: AG19156	Observed MW: 147-150 kDa	

Applications

Tested Applications: IF, IHC, WB, ELISA	Positive Controls: WB : MCF-7 cells, IHC : human testis tissue, human colon tissue IF : HepG2 cells,
Cited Applications: IF, IHC, WB	
Species Specificity: human	
Cited Species: human, rat, 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

SMC4, also named as Structural maintenance of chromosomes protein 4, is a 1288 amino acid protein, which is widely expressed and belongs to the SMC family, SMC4 subfamily. SMC4 is a Central component of the condensin complex, a complex required for conversion of interphase chromatin into mitotic-like condense chromosomes. The calculated molecular weight of SMC4 is 147 kDa, but modified SMC4 is about 160 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Shouyu Xu	27613141	Gene	IHC
Johan Busselez	31076588	Sci Rep	
Ipek Ilgin Gönenc	35099000	Hum Mol Genet	WB

Storage

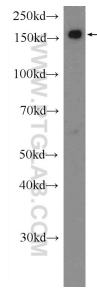
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

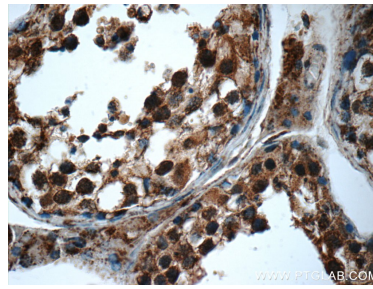
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

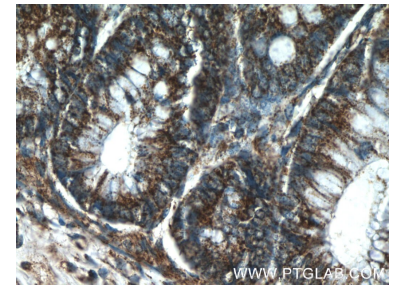
Selected Validation Data



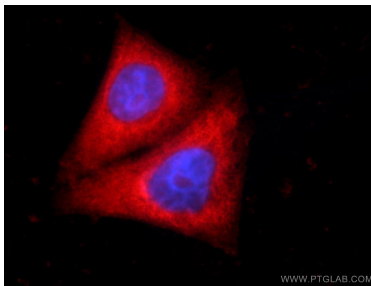
MCF-7 cells were subjected to SDS PAGE followed by western blot with 24758-1-AP (SMC4 Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 24758-1-AP (SMC4 Antibody) at dilution of 1:50 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 24758-1-AP (SMC4 Antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HepG2 cells using 24758-1-AP (SMC4 antibody) at dilution of 1:50 and Rhodamine-Goat anti-Rabbit IgG.