

For Research Use Only

# SMC4 Polyclonal antibody

Catalog Number: 24758-1-AP

Featured Product

5 Publications



## Basic Information

**Catalog Number:**

24758-1-AP

**Size:**

150ul, Concentration: 650 ug/ml by Nanodrop and 413 ug/ml by Bradford method using BSA as the standard;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG19156

**GenBank Accession Number:**

BC106033

**GeneID (NCBI):**

10051

**UNIPROT ID:**

Q9NTJ3

**Full Name:**

structural maintenance of chromosomes 4

**Calculated MW:**

1288 aa, 147 kDa

**Observed MW:**

147-150 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB: 1:5000-1:50000

IHC: 1:200-1:1000

IF/ICC: 1:400-1:1600

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, ELISA

**Cited Applications:**

WB, IHC, IF

**Species Specificity:**

human, mouse, rat

**Cited Species:**

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: HEK-293 cells, HeLa cells, MCF-7 cells, NIH/3T3 cells, C6 cells

IHC: human colon tissue, human testis tissue

IF/ICC: HepG2 cells,

## 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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

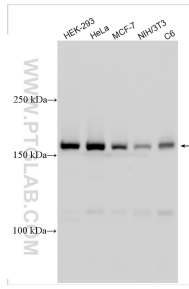
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

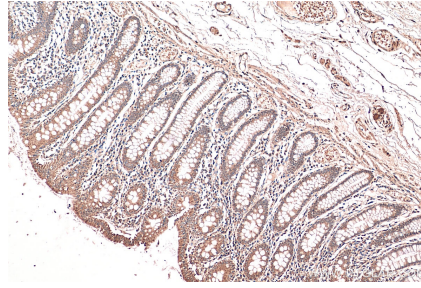
E: proteintech@ptglab.com  
W: ptglab.com

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

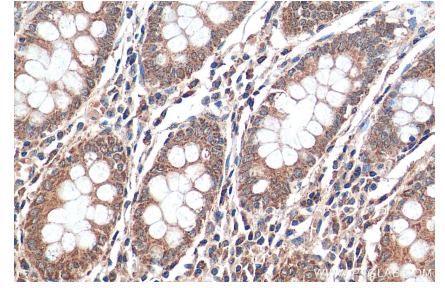
## Selected Validation Data



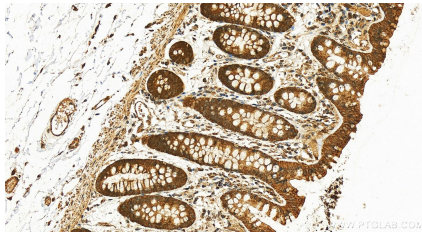
Various lysates were subjected to SDS PAGE followed by western blot with 24758-1-AP (SMC4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



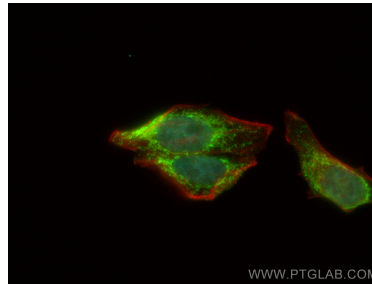
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 24758-1-AP (SMC4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 24758-1-AP (SMC4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human normal colon tissue slide using 24758-1-AP (SMC4 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 HepG2 cells using SMC4 antibody (24758-1-AP) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).