

For Research Use Only

SMEK1 Polyclonal antibody

Catalog Number: 26153-1-AP



Basic Information

Catalog Number: 26153-1-AP	GenBank Accession Number: BC038932	Purification Method: Protein A purification
Size: 150ul , Concentration: 350 ug/ml by Nanodrop;	GeneID (NCBI): 55671	Recommended Dilutions: WB 1:2000-1:10000
Source: Rabbit	UNIPROT ID: Q6IN85	IHC 1:300-1:1200
Isotype: IgG	Full Name: SMEK homolog 1, suppressor of mek1 (Dictyostelium)	IF/ICC 1:50-1:500
Immunogen Catalog Number: AG5070	Calculated MW: 833 aa, 95 kDa	
	Observed MW: 95-100 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Species Specificity: human	WB : HEK-293 cells, HeLa cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : human colon cancer tissue,
	IF/ICC : MCF-7 cells,

Background Information

PPP4R3A also known as SMEK1, is the regulatory subunit of serine/threonine-protein phosphatase 4. SMEK1 regulates the activity of PPP4C at centrosomal microtubule organizing centers. The PPP4C-PPP4R2-PPP4R3A PP4 complex specifically dephosphorylates H2AX phosphorylated on 'Ser-140' (gamma-H2AX) generated during DNA replication and required for DNA DSB repair(PMID: 18614045).

Storage

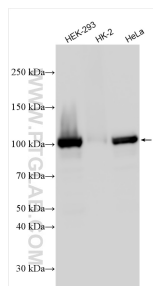
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

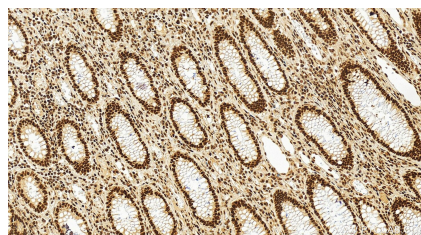
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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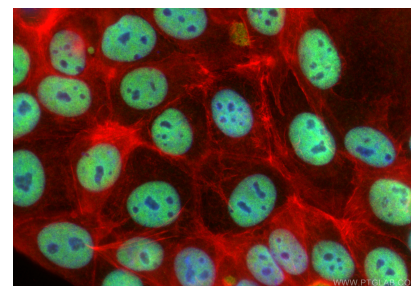
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 26153-1-AP (SMEK1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 26153-1-AP (SMEK1 antibody) at dilution of 1:600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using SMEK1 antibody (26153-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).