

For Research Use Only

# SMEK1 Polyclonal antibody, PBS Only

Catalog Number: 26153-1-PBS



## Basic Information

<b>Catalog Number:</b> 26153-1-PBS	<b>GenBank Accession Number:</b> BC038932	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 55671	
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q6IN85	
<b>Isotype:</b> IgG	<b>Full Name:</b> SMEK homolog 1, suppressor of mek1 (Dictyostelium)	
<b>Immunogen Catalog Number:</b> AG5070	<b>Calculated MW:</b> 833 aa, 95 kDa	
	<b>Observed MW:</b> 95-100 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, Indirect ELISA

**Species Specificity:**  
human

## 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

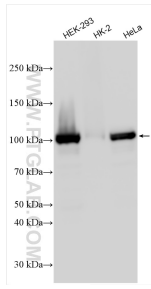
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

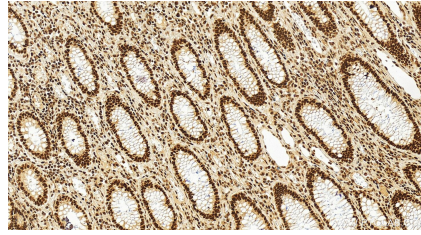
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
W: ptglab.com

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

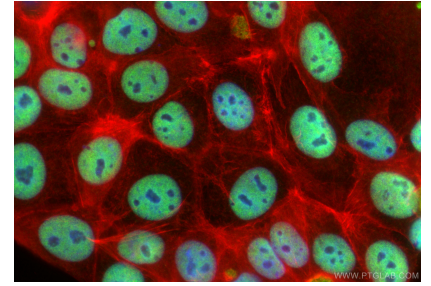
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 26153-1-AP (SMEK1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 26153-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 26153-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 26153-1-PBS in a different storage buffer formulation.