

For Research Use Only

# SMEK1 Polyclonal antibody

Catalog Number: 26153-1-AP



## Basic Information

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

## Applications

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

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

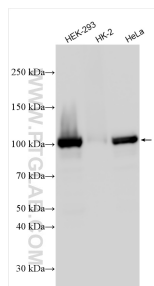
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

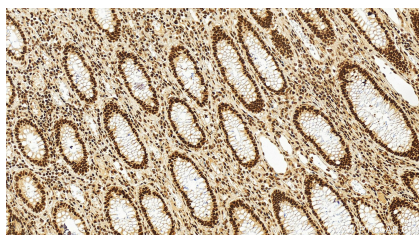
W: [ptgcn.com](http://ptgcn.com)

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

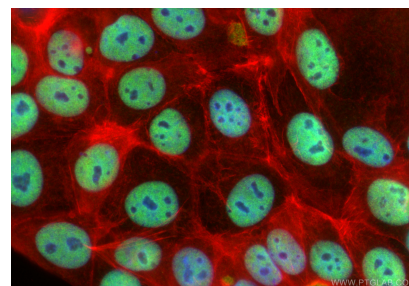
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 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).