

For Research Use Only

# PEG3 Recombinant antibody, PBS Only

Catalog Number: 84030-5-PBS



## Basic Information

<b>Catalog Number:</b> 84030-5-PBS	<b>GenBank Accession Number:</b> BC150272	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5178	<b>CloneNo.:</b> 241234C5
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9GZU2	
<b>Isotype:</b> IgG	<b>Full Name:</b> paternally expressed 3	
<b>Immunogen Catalog Number:</b> AG20132	<b>Calculated MW:</b> 1588 aa, 181 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, FC (Intra), Indirect ELISA

**Species Specificity:**  
human

## Background Information

Paternally expressed 3 (PEG3) was responsible for Kras/Erk- and mTOR-driven HCC (hepatocellular carcinoma) (PMID: 36451866). PEG3 can regulate the physiological processes related to energy homeostasis found in multiple tissues, such as the brain, testis, ovary, and placenta (PMID: 32729618). Epigenetic silencing and loss of imprinting of PEG3 are implicated in glioma tumorigenesis (PMID: 32231463).

## Storage

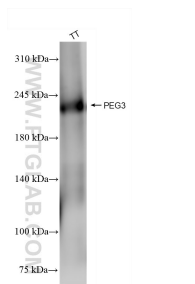
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

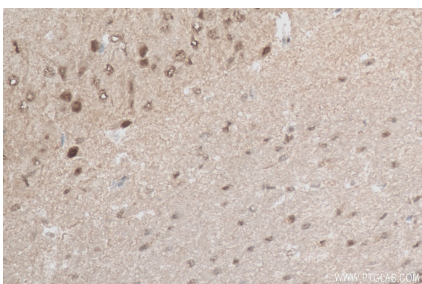
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

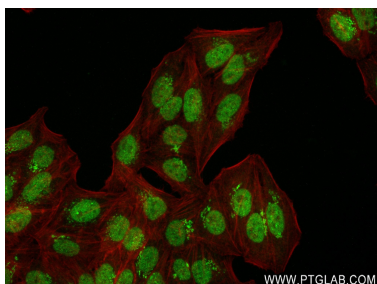
Selected Validation Data



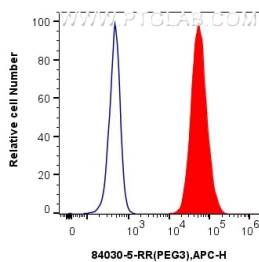
TT cells were subjected to SDS PAGE followed by western blot with 84030-5-RR (PEG3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84030-5-PBS in a different storage buffer formulation.



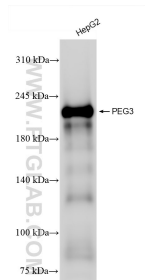
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 84030-5-RR (PEG3 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84030-5-PBS in a different storage buffer formulation.



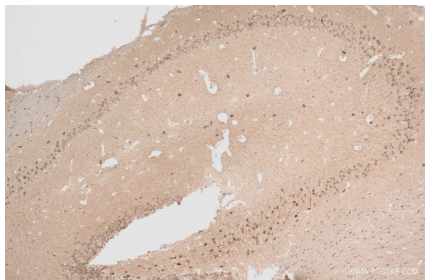
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using PEG3 antibody (84030-5-RR, Clone: 241234C5 ) at dilution of 1:300 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 84030-5-PBS in a different storage buffer formulation.



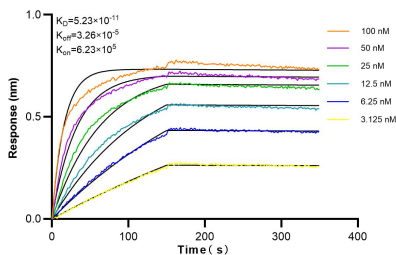
1x10<sup>6</sup> HepG2 cells were intracellularly stained with 0.25 ug PEG3 Recombinant antibody (84030-5-RR, Clone:241234C5) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set. This data was developed using the same antibody clone with 84030-5-PBS in a different storage buffer formulation.



HepG2 cells were subjected to SDS PAGE followed by western blot with 84030-5-RR (PEG3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84030-5-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 84030-5-RR (PEG3 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84030-5-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 84030-5-RR against Human PEG3 were performed. The affinity constant is 52.3 pM.