

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> 1 mg/ml	<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:**  
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.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS Only

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

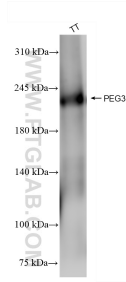
T: 4006900926

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

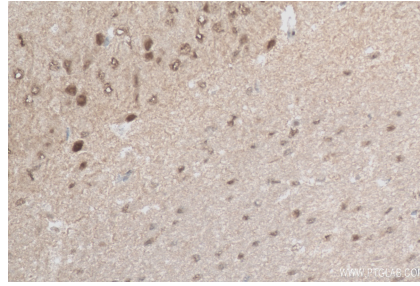
W: [ptgcn.com](http://ptgcn.com)

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

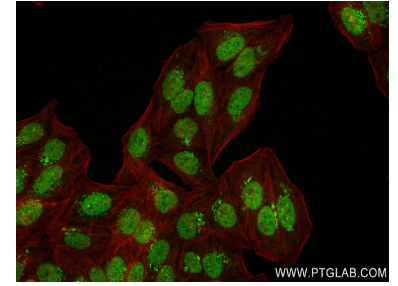
## Selected Validation Data



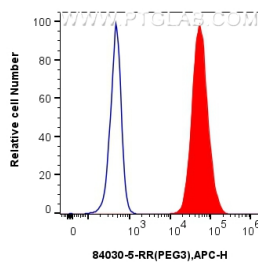
TT cells were subjected to SDS PAGE followed by western blot with 84030-5-RR (PEG3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84030-5-PBS in a different storage buffer formulation.



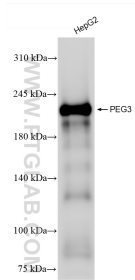
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 84030-5-RR (PEG3 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84030-5-PBS in a different storage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



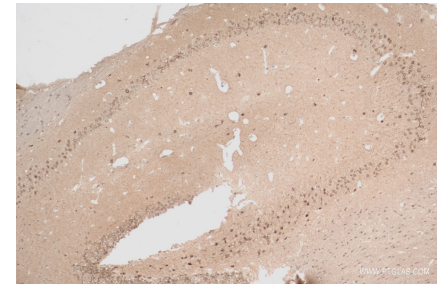
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using PEG3 antibody (84030-5-RR, Clone: 241234C5) at dilution of 1:300 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 84030-5-PBS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



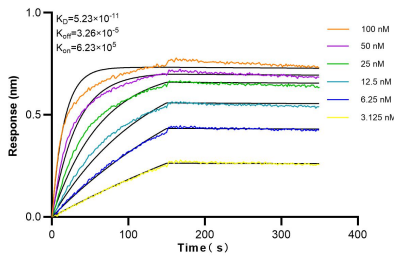
1x10<sup>6</sup> HepG2 cells were intracellularly stained with 0.25 ug PEG3 Recombinant antibody (84030-5-RR, Clone:241234C5) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set. This 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.