

For Research Use Only

# PEG3 Recombinant antibody

Catalog Number: 84030-5-RR



## Basic Information

<b>Catalog Number:</b> 84030-5-RR	<b>GenBank Accession Number:</b> BC150272	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 5178	<b>CloneNo.:</b> 241234C5
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9GZU2	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:200-1:800 IF/ICC 1:150-1:600
<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), ELISA

**Species Specificity:**  
human

**Positive Controls:**  
**WB:** TT cells, HepG2 cells  
**IHC:** mouse brain tissue,  
**IF/ICC:** HepG2 cells,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## 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 -20°C. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

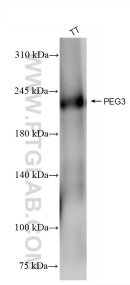
T: 4006900926

E: Proteintech-CN@ptglab.com

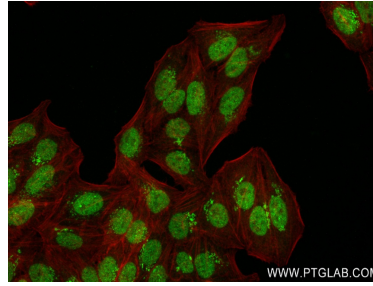
W: ptgcn.com

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

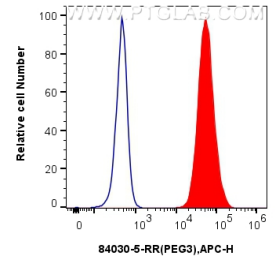
## Selected Validation Data



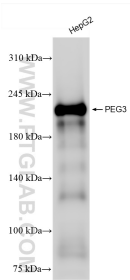
TT cells were subjected to SDS PAGE followed by western blot with 84030-5-RR (PEG3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



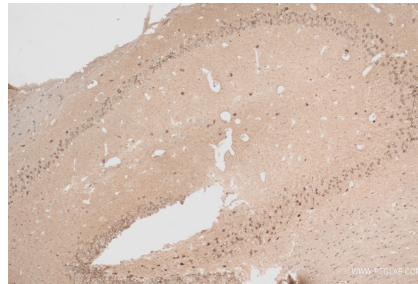
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using PEG3 antibody (84030-5-RR, Clone: 241234C5) at dilution of 1:300 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



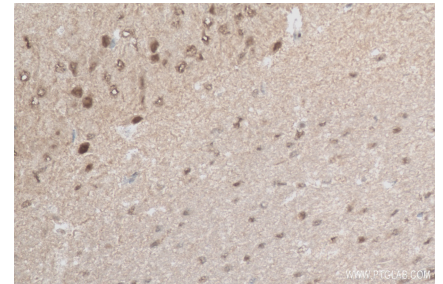
$1 \times 10^6$  HepG2 cells were intracellularly stained with 0.25  $\mu$ g PEG3 Recombinant antibody (84030-5-RR, Clone:241234C5) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25  $\mu$ g Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



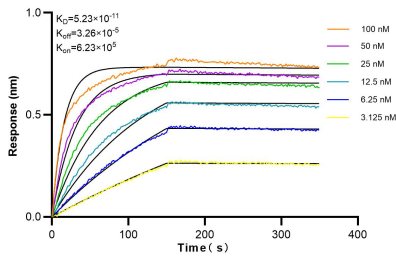
HepG2 cells were subjected to SDS PAGE followed by western blot with 84030-5-RR (PEG3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



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).



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).



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