

For Research Use Only

PEG3 Recombinant antibody

Catalog Number: 84030-5-RR



Basic Information

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|--|--|---|
| Catalog Number: 84030-5-RR | GenBank Accession Number: BC150272 | Purification Method: Protein A purification |
| Size: 100ul , Concentration: 1000 µg/ml by Nanodrop; | GeneID (NCBI): 5178 | CloneNo.: 241234C5 |
| Source: Rabbit | UNIPROT ID: Q9GZU2 | Recommended Dilutions: WB 1:2000-1:10000 IHC 1:200-1:800 IF/ICC 1:150-1:600 |
| Isotype: IgG | Full Name: paternally expressed 3 | |
| Immunogen Catalog Number: AG20132 | Calculated MW: 1588 aa, 181 kDa | |

Applications

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|--|---|
| Tested Applications: WB, IHC, IF/ICC, FC (Intra), ELISA | Positive Controls: WB : TT cells, HepG2 cells IHC : mouse brain tissue, IF/ICC : HepG2 cells, |
| Species Specificity: human | |
| 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

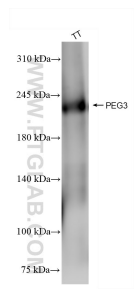
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

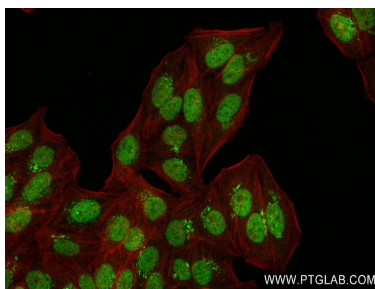
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

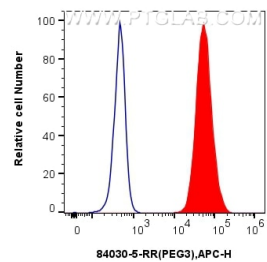
Selected Validation Data



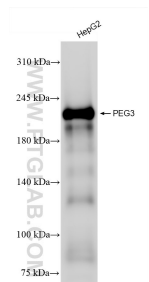
TT cells were subjected to SDS PAGE followed by western blot with 84030-5-RR (PEG3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



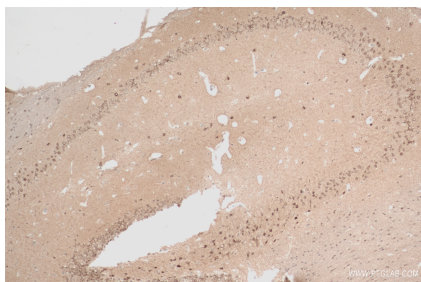
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using PEG3 antibody (84030-5-RR, Clone: 241234C5) at dilution of 1:300 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



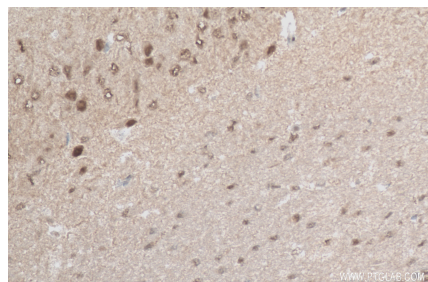
1x10⁶ HepG2 cells were intracellularly stained with 0.25 ug PEG3 Recombinant antibody (84030-5-RR, Clone:241234C5) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



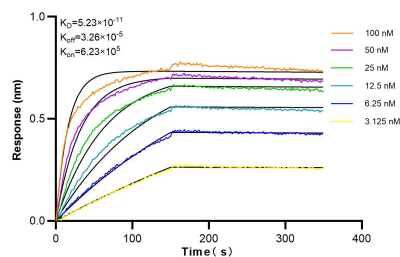
HepG2 cells were subjected to SDS PAGE followed by western blot with 84030-5-RR (PEG3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



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 pM.