

For Research Use Only

CPNE3 Recombinant antibody

Catalog Number: 83820-5-RR



Basic Information

Catalog Number:

83820-5-RR

Concentration:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1634

GenBank Accession Number:

BC036242

GeneID (NCBI):

8895

UNIPROT ID:

O75131

Full Name:

copine III

Calculated MW:

60 kDa

Observed MW:

60 kDa

Purification Method:

Protein A purification

CloneNo.:

240871E5

Recommended Dilutions:

WB 1:2000-1:14000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IF/ICC 1:125-1:500

Applications

Tested Applications:

WB, IF/ICC, FC (Intra), IP, ELISA

Species Specificity:

human

Positive Controls:

WB : Y79 cells, HepG2 cells, A431 cells, A549 cells, HeLa cells, HuH-7 cells

IP : HepG2 cells,

IF/ICC : A431 cells,

Background Information

Copines are a family of evolutionarily conserved calcium-dependent phospholipid-binding proteins (PMID: 9430674). They contain two Ca(2+)- and phospholipid-binding domains known as C2 domains. Copines are potentially involved in regulating membrane trafficking and in protein-protein interactions. Copine III (CPNE3) has also been identified as a ligand of ERBB2 and plays an important role in various carcinogenesis. The high expression of CPNE3 is an adverse prognostic biomarker for acute myeloid leukemia (PMID: 28670859).

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:

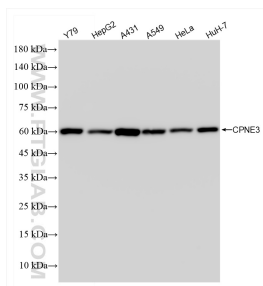
T: 4006900926

E: Proteintech-CN@ptglab.com

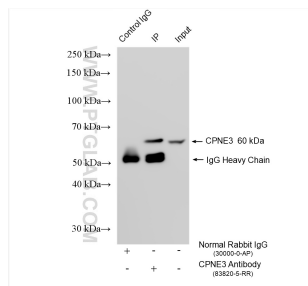
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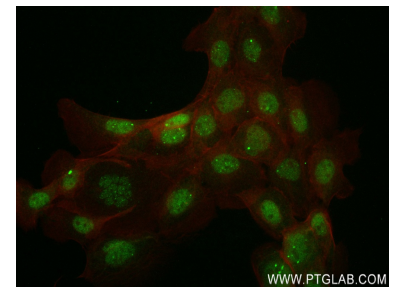
Selected Validation Data



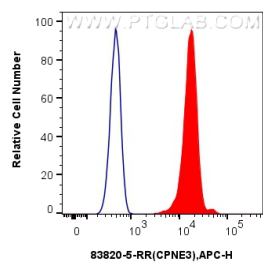
Various lysates were subjected to SDS PAGE followed by western blot with 83820-5-RR (CPNE3 antibody) at dilution of 1:7000 incubated at room temperature for 1.5 hours.



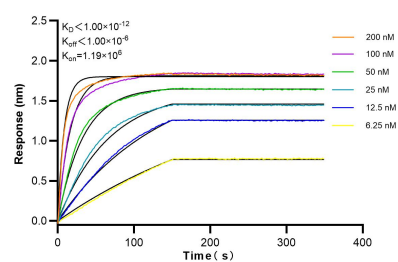
IP result of anti-CPNE3 (IP:83820-5-RR, 4ug; Detection:83820-5-RR 1:2000) with HepG2 cells lysate 1600 ug.



Immunofluorescent analysis of (4% PFA) fixed A431 cells using CPNE3 antibody (83820-5-RR, Clone: 240871E5) at dilution of 1:250 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 CPNE3 Recombinant antibody (83820-5-RR, Clone:240871E5) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 83820-5-RR against Human CPNE3 were performed. The affinity constant is below 1 pM.