

For Research Use Only

BCDIN3D Recombinant monoclonal antibody

Catalog Number: 83309-1-RR



Basic Information

Catalog Number:

83309-1-RR

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG15613

GenBank Accession Number:

BC053560

GeneID (NCBI):

144233

UNIPROT ID:

Q7Z5W3

Full Name:

BCDIN3 domain containing

Calculated MW:

292 aa, 33 kDa

Observed MW:

33 kDa

Purification Method:

Protein A purification

CloneNo.:

240152A9

Recommended Dilutions:

WB: 1:500-1:1000

FC (Intra): 0.25 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : HeLa cells, SH-SY5Y cells

FC (Intra) : HeLa cells,

Background Information

BCDIN3D (BCDIN3 domain containing RNA methyltransferase), it is expected to be located in cytoplasm, which is ubiquitous expressed in prostate, lymph node and skeletal muscle. This gene encodes an RNA methyltransferase which belongs to the rosmann fold methyltransferase family and serves as a 5'-methylphosphate capping enzyme that is specific for cytoplasmic histidyl tRNA. The encoded protein contains an S-adenosylmethionine binding domain and uses the methyl group donor, S-adenosylmethionine. This gene is overexpressed in breast cancer cells, and is related to the tumorigenic phenotype and poor prognosis of breast cancer. The encoded protein is thought to promote the cellular invasion of breast cancer cells, by downregulating the expression of tumor suppressor miRNAs through the dimethylation of the 5-monophosphate of the corresponding precursor miRNAs. The molecular weight of BCDIN3D is 33 kDa.

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:

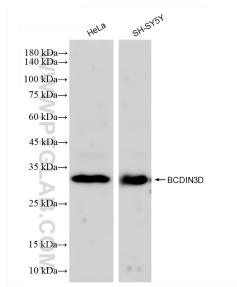
T: 4006900926

E: Proteintech-CN@ptglab.com

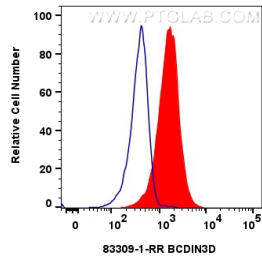
W: ptgcn.com

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

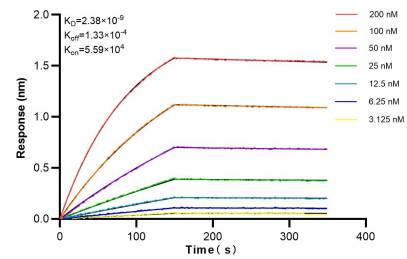
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83309-1-RR (BCDIN3D antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



1x10⁶ HeLa cells were intracellularly stained with 0.25 ug BCDIN3D Recombinant antibody (83309-1-RR, Clone:240152A9) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.



Biolayer interferometry (BLI) kinetic assays of 83309-1-RR against Human BCDIN3D were performed. The affinity constant is 2.38 nM.