

For Research Use Only

BCDIN3D Recombinant antibody

Catalog Number:83309-1-RR



Basic Information

Catalog Number: 83309-1-RR	GenBank Accession Number: BC053560	Purification Method: Protein A purification
Size: 1000 ug/ml	GeneID (NCBI): 144233	CloneNo.: 240152A9
Source: Rabbit	UNIPROT ID: Q7Z5W3	Recommended Dilutions: WB 1:500-1:1000
Isotype: IgG	Full Name: BCDIN3 domain containing	
Immunogen Catalog Number: AG15613	Calculated MW: 292 aa, 33 kDa	
	Observed MW: 33 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : HeLa cells, SH-SY5Y cells
Species Specificity: human	

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 rossmann 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 pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

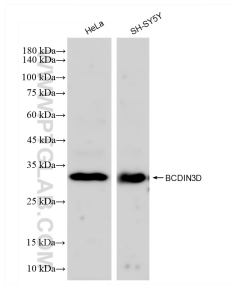
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E: Proteintech-CN@ptglab.com

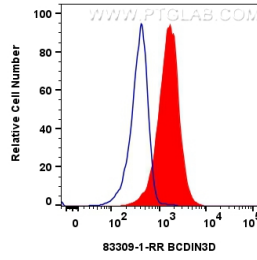
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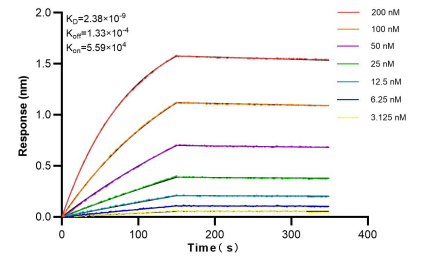
Selected Validation Data



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.



1×10^6 HeLa cells were intracellularly stained with 0.25 μ g BCDIN3D Recombinant antibody (83309-1-RR, Clone:240152A9) and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 μ g Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Bioluminescence resonance energy transfer (BRET) kinetic assays of 83309-1-RR against Human BCDIN3D were performed. The affinity constant is 2.38 nM.