

For Research Use Only

# BCDIN3D Recombinant antibody

Catalog Number: 83309-1-RR



## Basic Information

<b>Catalog Number:</b> 83309-1-RR	<b>GenBank Accession Number:</b> BC053560	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 144233	<b>CloneNo.:</b> 240152A9
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q7Z5W3	<b>Recommended Dilutions:</b> WB 1:500-1:1000
<b>Isotype:</b> IgG	<b>Full Name:</b> BCDIN3 domain containing	
<b>Immunogen Catalog Number:</b> AG15613	<b>Calculated MW:</b> 292 aa, 33 kDa	
	<b>Observed MW:</b> 33 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : HeLa cells, SH-SY5Y cells
<b>Species Specificity:</b> 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 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

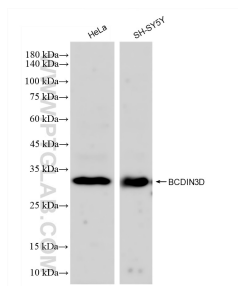
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

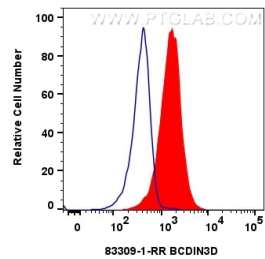
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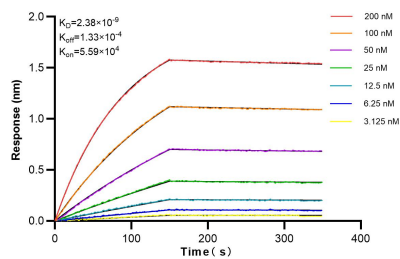
## Selected Validation Data



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.



1x10<sup>6</sup> 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 (PF00011-C).



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