

For Research Use Only

BCDIN3D Recombinant antibody, PBS Only (Capture)

Catalog Number: 83309-1-PBS



Basic Information

Catalog Number: 83309-1-PBS	GenBank Accession Number: BC053560	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 144233	CloneNo.: 240152A9
Source: Rabbit	UNIPROT ID: Q7Z5W3	
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, Cytometric bead array, Indirect ELISA

Species Specificity:
human

Product Information

83309-1-PBS targets BCDIN3D as part of a matched antibody pair:

MP00333-1: 83309-1-PBS capture and 83309-3-PBS detection (validated in Cytometric bead array)

MP00333-3: 83309-1-PBS capture and 83309-4-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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

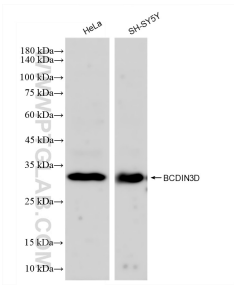
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

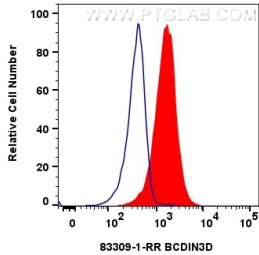
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

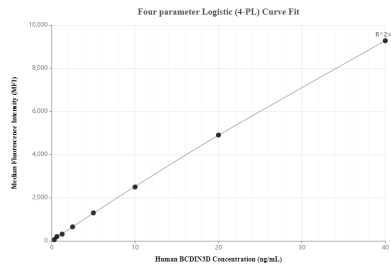
Selected Validation Data



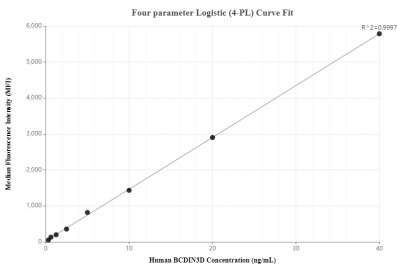
Various lysates were subjected to SDS PAGE followed by western blot with 83309-1-RR (BCDIN3D antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83309-1-PBS in a different storage buffer formulation.



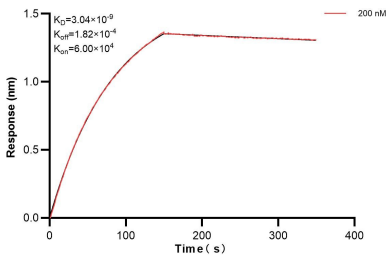
1x10⁶ HeLa cells were intracellularly stained with 0.25 ug BCDIN3D Recombinant antibody (83309-1-RR, Clone:240152A9) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 83309-1-PBS in a different storage buffer formulation.



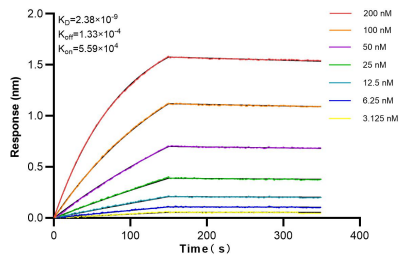
Cytometric bead array standard curve of MP00333-1, BCDIN3D Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83309-1-PBS. Detection antibody: 83309-3-PBS. Standard: Ag15613. Range: 0.313-40 ng/mL



Cytometric bead array standard curve of MP00333-3, BCDIN3D Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83309-1-PBS. Detection antibody: 83309-4-PBS. Standard: Ag15613. Range: 0.313-40 ng/mL



Biolayer interferometry (BLI) kinetic assay of 83309-1-PBS against Human BCDIN3D was performed. The affinity constant is 3.04 nM.



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