

BCDIN3D Antibody (C-Term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22145b**Specification**

BCDIN3D Antibody (C-Term) - Product Information

Application	WB,E
Primary Accession	Q7Z5W3
Other Accession	Q5RFI3
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	33200
Antigen Region	243-276

BCDIN3D Antibody (C-Term) - Additional Information**Gene ID** 144233**Other Names**

Pre-miRNA 5'-monophosphate methyltransferase, 2.1.1.-, BCDIN3 domain-containing protein, BCDIN3D

Target/Specificity

This BCDIN3D antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 243-276 amino acids from human BCDIN3D.

Dilution

WB~~1:1000-2000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

BCDIN3D Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

BCDIN3D Antibody (C-Term) - Protein Information**Name** BCDIN3D ([HGNC:27050](#))

Function O-methyltransferase that specifically monomethylates 5'- monophosphate of cytoplasmic histidyl tRNA (tRNA(His)), acting as a capping enzyme by protecting tRNA(His) from cleavage by DICER1 (PubMed:[28119416](#), PubMed:[31329584](#), PubMed:[31919512](#)). Also able, with less efficiently, to methylate the 5' monophosphate of a subset of pre- miRNAs, acting as a negative regulator of miRNA processing (PubMed:[23063121](#), PubMed:[28119416](#)). The 5' monophosphate of pre-miRNAs is recognized by DICER1 and is required for pre-miRNAs processing: methylation at this position reduces the processing of pre-miRNAs by DICER1 (PubMed:[23063121](#)). Was also reported to mediate dimethylation of pre-miR-145; however dimethylation cannot be reproduced by another group which observes a monomethylation of pre-miR-145 (PubMed:[23063121](#), PubMed:[28119416](#)).

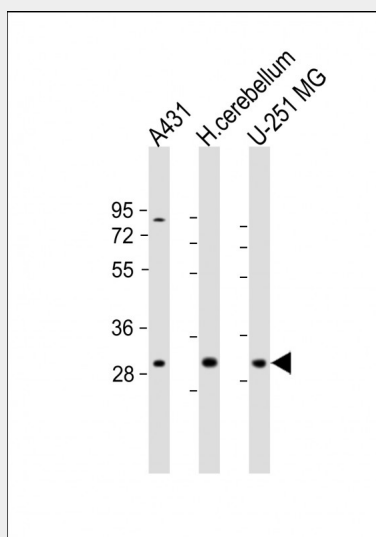
Cellular Location
Cytoplasm.

BCDIN3D Antibody (C-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

BCDIN3D Antibody (C-Term) - Images



All lanes : Anti-BCDIN3D Antibody (C-Term) at 1:1000-2000 dilution Lane 1: A431 whole cell lysate Lane 2: human cerebellum lysate Lane 3: U-251 MG whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 33kDa Blocking/Dilution buffer: 5% NFDm/TBST.

BCDIN3D Antibody (C-Term) - Background

O-methyltransferase that specifically dimethylates the 5' monophosphate of pre-miRNAs, acting as

a negative regulator of miRNA processing. The 5' monophosphate of pre-miRNAs is recognized by DICER1 and is required for pre-miRNAs processing: methylation at this position reduces the processing of pre-miRNAs by DICER1. Able to mediate methylation of pre-miR-145, as well as other pre- miRNAs.

BCDIN3D Antibody (C-Term) - References

Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Xhemalce B.,et al.Cell 151:278-288(2012).