

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

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**BCDIN3D Antibody (C-Term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q7Z5W3</a>
Other Accession	<a href="#">Q5RFI3</a>
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

**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

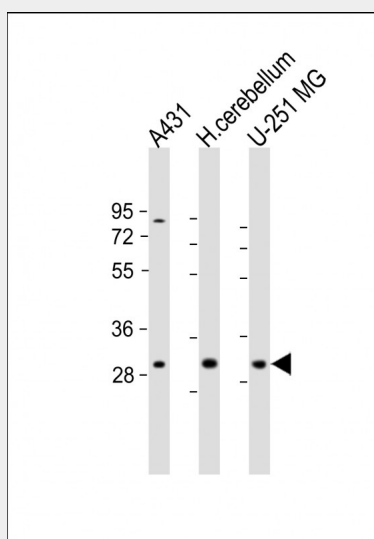
Cytoplasm.

#### 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).