

For Research Use Only

ZCCHC11 Polyclonal antibody

Catalog Number: 20119-1-AP

1 Publications



Basic Information

Catalog Number: 20119-1-AP	GenBank Accession Number: BC048301	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 1500 ug/ml by Nanodrop and 627 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 23318	Recommended Dilutions: WB 1:500-1:1000
Source: Rabbit	UNIPROT ID: Q5TAX3	IHC 1:20-1:200
Isotype: IgG	Full Name: zinc finger, CCHC domain containing 11	IF/ICC 1:10-1:100
Immunogen Catalog Number: AG13661	Calculated MW: 185 kDa	
	Observed MW: 185 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls: WB : HeLa cells, human brain tissue
Cited Applications: WB, IF	IHC : human brain tissue, human testis tissue
Species Specificity: human	IF/ICC : HeLa cells,
Cited Species: human	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

ZCCHC11, also named as KIAA0191 and TUT4, is an uridylyltransferase that acts as a suppressor of microRNA (miRNA) biogenesis by specifically mediating the terminal uridylation of some miRNAs. ZCCHC11 catalyzes the 3' uridylation of precursor let-7 (pre-let-7), a miRNA precursor. Uridylated pre-let-7 miRNAs fail to be processed by Dicer and undergo degradation. Degradation of pre-let-7 contributes to the maintenance of embryonic stem (ES) cells and is required for ES cells to maintain pluripotency. ZCCHC11 can't bind RNA by itself, recruited to pre-let-7 miRNAs via its interaction with LIN28 and LIN28B. Also catalyzes the 3' uridylation of miR-26A, a miRNA that represses IL6 transcript, leading to abrogate IL6 transcript repression and promote cytokine expression. ZCCHC11 may also suppress Toll-like receptor-induced NF-kappa-B activity via binding to T2BP.

Notable Publications

Author	Pubmed ID	Journal	Application
Anne Gaza	33901943	Neoplasia	WB,IF

Storage

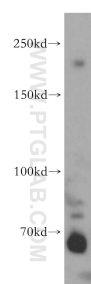
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

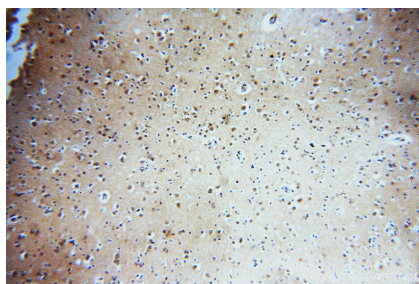
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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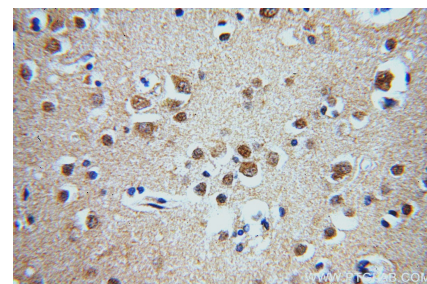
Selected Validation Data



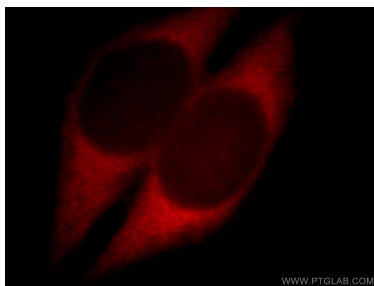
HeLa cells were subjected to SDS PAGE followed by western blot with 20119-1-AP (ZCCHC11 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human brain using 20119-1-AP (ZCCHC11 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human brain using 20119-1-AP (ZCCHC11 antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HeLa cells, using ZCCHC11 antibody 20119-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).