

For Research Use Only

CCDC47 Polyclonal antibody

Catalog Number: 32080-1-AP



Basic Information

Catalog Number: 32080-1-AP	GenBank Accession Number: BC008905	Purification Method: Antigen affinity Purification
Size: 150ul , Concentration: 450 ug/ml by Nanodrop;	GeneID (NCBI): 57003	Recommended Dilutions: WB 1:1000-1:8000 IHC 1:200-1:800
Source: Rabbit	UNIPROT ID: Q96A33	
Isotype: IgG	Full Name: coiled-coil domain containing 47	
Immunogen Catalog Number: AG36570	Calculated MW: 56 kDa	
	Observed MW: 56 kDa	

Applications

Tested Applications:

WB, IHC, ELISA

Species Specificity:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : Jurkat cells, L02 cells, RT-4 cells, mouse heart tissue, mouse lung tissue, rat heart tissue

IHC : mouse cerebellum tissue, mouse testis tissue

Background Information

Coiled-coil domain containing 47 (CCDC47, also known as THNS, GK001, and MSTP041) is an endoplasmic reticulum (ER) transmembrane protein involved in calcium signaling through utilization of its calcium binding-acidic luminal domain. It also interacts with the ERAD (endoplasmic reticulum-associated degradation) complex and is involved in ER stress relief (PMID: 28974366). The expression level of CCDC47 is associated with diabetic cardiomyopathy (PMID: 30140426). Its variant would cause trichohepatoneurodevelopmental syndrome (PMID: 38524542).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

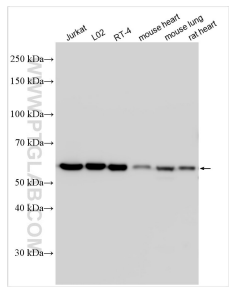
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

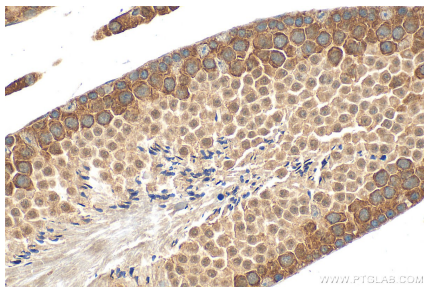
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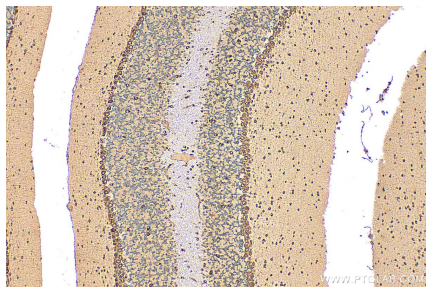
Selected Validation Data



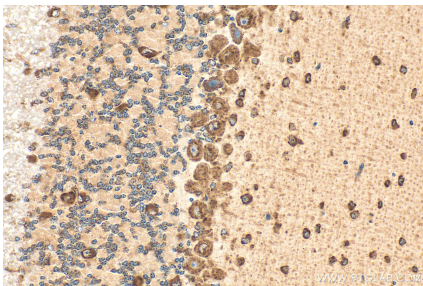
Various lysates were subjected to SDS PAGE followed by western blot with 32080-1-AP (CCDC47 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 32080-1-AP (CCDC47 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 32080-1-AP (CCDC47 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 32080-1-AP (CCDC47 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).