

For Research Use Only

CD99 Polyclonal antibody

Catalog Number: 23079-1-AP **3 Publications**



Basic Information

Catalog Number: 23079-1-AP	GenBank Accession Number: BC021620	Purification Method: Antigen Affinity purified
Size: 150ul , Concentration: 600 µg/ml by Nanodrop and 267 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 4267	Recommended Dilutions: WB 1:500-1:2000 IHC 1:20-1:200
Source: Rabbit	Full Name: CD99 molecule	
Isotype: IgG	Calculated MW: 19 kDa, 16 kDa, 17 kDa	
Immunogen Catalog Number: AG19461	Observed MW: 28 kDa, 32 kDa	

Applications

Tested Applications: FC, IHC, WB, ELISA	Positive Controls: WB : Jurkat cells, U-937 cells, THP-1 cells
Cited Applications: IF, IHC	IHC : human pancreas tissue, human testis tissue
Species Specificity: human	
Cited Species: human, pig	

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

CD99, also known as MIC2, is a heavily O-glycosylated transmembrane protein involved in T-cell adhesion processes and in spontaneous rosette formation with erythrocytes. CD99 is broadly distributed on many cell types, with particularly strong expression on human cortical thymocytes, Ewing's sarcoma cells and peripheral primitive neuroectodermal tumors (PMID: 9794396; 16984917). In normal cells, CD99 has been functionally implicated in cell adhesion, migration, apoptosis, differentiation, activation, and proliferation of lymphocytes and monocyte extravasation and transport of several transmembrane proteins (PMID: 16984917). CD99 displays two surface isoforms generated by alternative splicing: a long 32 kDa and a short 28 kDa form (PMID: 12368226).

Notable Publications

Author	Pubmed ID	Journal	Application
Jorge Hernando-Cubero	27698882	Oncol Lett	IHC
Lingkai Zhang	34872612	J Anim Sci Biotechnol	IHC, IF
Binbin Chen	35428764	Cell Death Dis	IHC

Storage

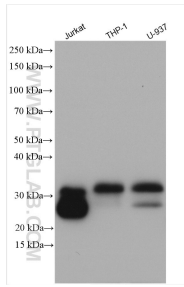
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

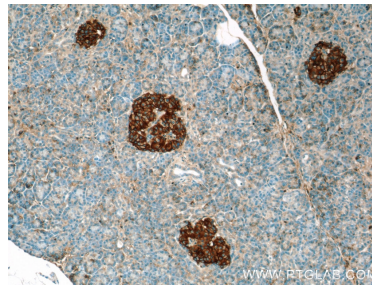
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

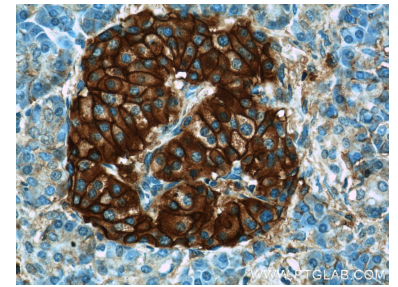
Selected Validation Data



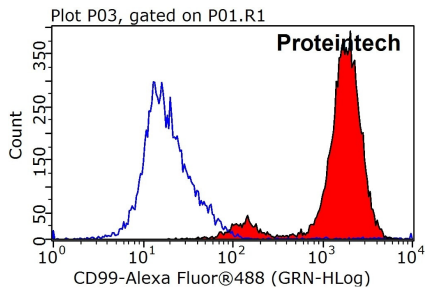
Various lysates were subjected to SDS PAGE followed by western blot with 23079-1-AP (CD99 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human pancreas slide using 23079-1-AP (CD99 Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human pancreas slide using 23079-1-AP (CD99 Antibody) at dilution of 1:50 (under 40x lens).



1×10^6 Jurkat cells were stained with 0.5ug CD99 antibody (23079-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.