

For Research Use Only

CD157 Polyclonal antibody

Catalog Number: 16337-1-AP

1 Publications



Basic Information

Catalog Number: 16337-1-AP	GenBank Accession Number: BC012095	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 200 ug/ml by Nanodrop and 200 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 683	Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q10588	
Isotype: IgG	Full Name: bone marrow stromal cell antigen 1	
Immunogen Catalog Number: AG9491	Calculated MW: 318 aa, 36 kDa	
	Observed MW: 39 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Cited Applications: WB	WB : A549 cells,
Species Specificity: human, mouse	IHC : human tonsillitis tissue,
Cited Species: rat	
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

BST-1(bone marrow stromal cell antigen 1), also named as CD157 or ADP-ribosyl cyclase 2, is a glycosyl phosphatidylinositol-anchored protein that stimulates pre-B-cell growth and has adenosine diphosphate (ADP)-ribosyl cyclase and cyclic ADP-ribose (cADPR) hydrolase activity (PMID: 9473467, 11866528). The two enzymatic activities are responsible for the synthesis and hydrolysis of cADPR, a novel second messenger of calcium release from intracellular calcium stores. BST-1 has a calculated molecular mass of 30-36 kDa and an apparent molecular mass of 40-46 kDa due to the glycosylation (PMID: 8941363, 10491089).

Notable Publications

Author	Pubmed ID	Journal	Application
Quanjiang Zhang	38212381	EMBO J	WB

Storage

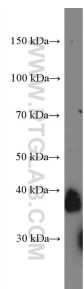
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

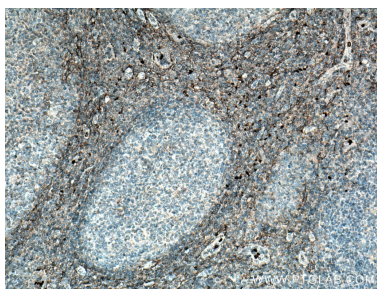
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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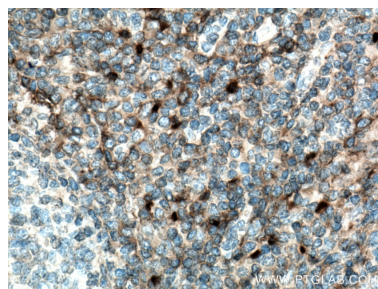
Selected Validation Data



A549 cells were subjected to SDS PAGE followed by western blot with 16337-1-AP (CD157 antibody at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 16337-1-AP (CD157 antibody) at dilution of 1:100 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 16337-1-AP (CD157 antibody) at dilution of 1:100 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).