For Research Use Only

CD157 Polyclonal antibody

Catalog Number:16337-1-AP Featured Product 1 Publications

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Basic Information

Catalog Number:
16337-1-AP

Size:
150ul , Concentration: 200 ug/ml by Nanodrop and 200 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG9491

GenBank Accession Number:
BC012095

GeneID (NCBI):
683

UNIPROT ID:
Q10588

Full Name:
bone marrow stromal cell antigen 1

Calculated MW:
318 aa, 36 kDa

Observed MW:
39-46 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:500-1:1000
IHC: 1:50-1:500

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB

Species Specificity:
human

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

Positive Controls:

WB : A549 cells, RAW 264.7 cells

IHC : human tonsillitis tissue,

Background Information

BST-1(bone marrow stromal cell antigen 1), also named as CD157 or ADP-ribosyl cyclase 2, is a glycosyl phosphotidylinositol-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

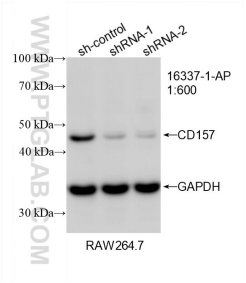
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

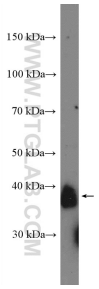
*** 20ul sizes contain 0.1% BSA

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)
E: proteintech@ptglab.com
W: ptglab.com

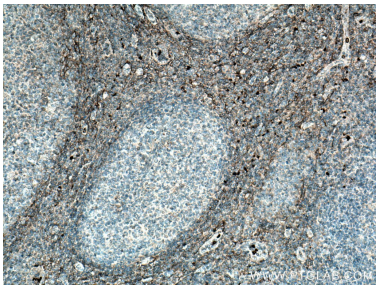
Selected Validation Data



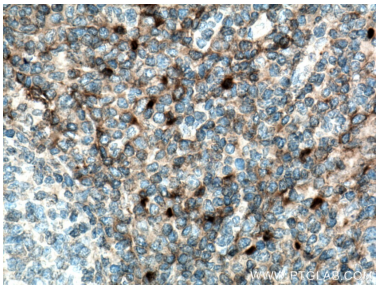
WB result of CD157 antibody (16337-1-AP; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-CD157 transfected RAW 264.7 cells.



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).