For Research Use Only

CD63 Monoclonal antibody

Catalog Number:67605-1-Ig 89 Publications

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Basic Information

Catalog Number:
67605-1-Ig

Size:
150ul , Concentration: 1000 ug/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG19690

GenBank Accession Number:
BC002349

GeneID (NCBI):
967

UNIPROT ID:
P08962

Full Name:
CD63 molecule

Calculated MW:
26 kDa

Observed MW:
35 kDa

Purification Method:
Protein G purification

CloneNo.:
3D4D1

Recommended Dilutions:
WB: 1:5000-1:10000
IHC: 1:350-1:1400
IF-P: 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF-P, ELISA

Cited Applications:
WB, IF

Species Specificity:
human

Cited Species:
human, rat, goat

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 : HeLa cells, U2OS cells, MCF-7 cells, A549 cells, K-562 cells, HL-60, THP-1 cells, LNCaP cells, HUVEC cells

IHC : human tonsillitis tissue, human malignant melanoma tissue, human colon cancer tissue

IF-P : human tonsillitis tissue, human malignant melanoma tissue, human lymphoma tissue

Background Information

CD63 is a 30-60 kDa lysosomal membrane protein that belongs to the tetraspanin family. This protein plays many important roles in immuno-physiological functions. It mediate signal transduction events that play a role in the regulation of cell development, activation and motility. CD63 is expressed on activated platelets, thus it may function as a blood platelet activation marker. CD63 is a lysosomal membrane glycoprotein that is translocated to plasma membrane after platelet activation. The CD63 tetraspanin is highly expressed in the early stages of melanoma and decreases in advanced lesions, suggesting it as a possible suppressor of tumor progression. Deficiency of this protein is associated with Hermansky-Pudlak syndrome.

Notable Publications

Author	Pubmed ID	Journal	Application
Yunfei Chen	32966240	Aging (Albany NY)	WB
Na-Na Sun	34483252	Chin Med J (Engl)	WB
Hongtao Wang	36277890	Biomed Res Int	WB

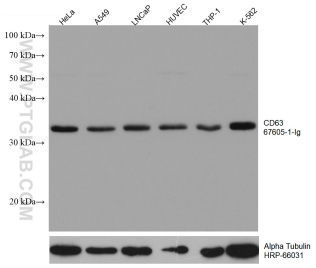
Storage

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

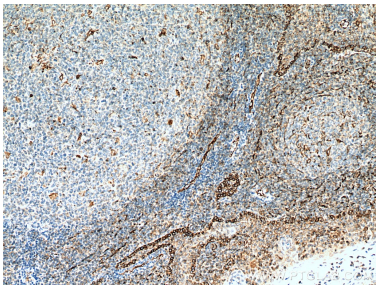
*** 20ul sizes contain 0.1% BSA

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

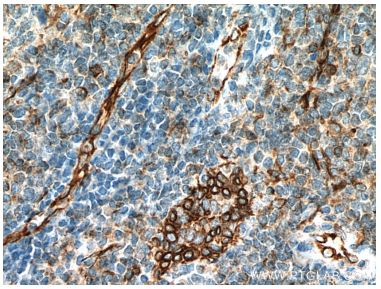
Selected Validation Data



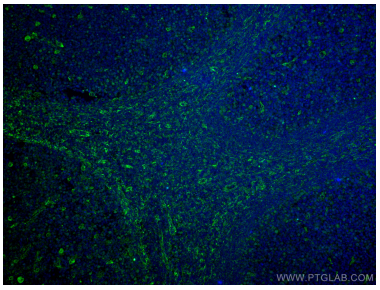
Various lysates were subjected to SDS PAGE followed by western blot with 67605-1-Ig (CD63 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control.



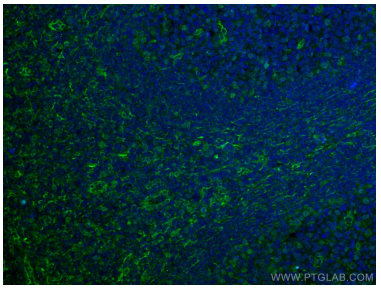
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 67605-1-Ig (CD63 antibody) at dilution of 1:700 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 67605-1-Ig (CD63 antibody) at dilution of 1:700 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using CD63 antibody (67605-1-Ig, Clone: 3D4D1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



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