

For Research Use Only

FCGR2A / CD32a Monoclonal antibody



Catalog Number: 66529-1-Ig

Basic Information

Catalog Number: 66529-1-Ig	GenBank Accession Number: BC020823	Purification Method: Protein A purification
Size: 1800 µg/ml	GeneID (NCBI): 2212	CloneNo.: 1D3F1
Source: Mouse	UNIPROT ID: P12318	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:2500-1:10000 IF 1:200-1:800
Isotype: IgG2b	Full Name: Fc fragment of IgG, low affinity IIa, receptor (CD32)	
Immunogen Catalog Number: AG25878	Calculated MW: 35 kDa	
	Observed MW: 42 kDa	

Applications

Tested Applications:
FC, IF/ICC, IHC, WB, ELISA

Species Specificity:
Human

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: TF-1 cells, Raji cells, U-937 cells, Mo7e cells, K-562 cells, THP-1 cells

IHC: human liver cancer tissue, human tonsillitis tissue

IF: THP-1 cells,

Background Information

IgG Fc receptors (FcγRs) play important roles in immune responses. Low affinity IgG Fc receptor Fc gamma RIIa (FCGR2A, CD32a) is a cell surface receptor found on phagocytic cells such as macrophages and neutrophils, and is involved in the process of phagocytosis and clearing of immune complexes.

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

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

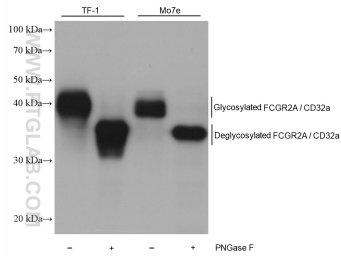
T: 4006900926

E: Proteintech-CN@ptglab.com

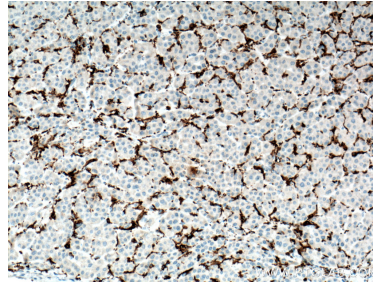
W: ptgcn.com

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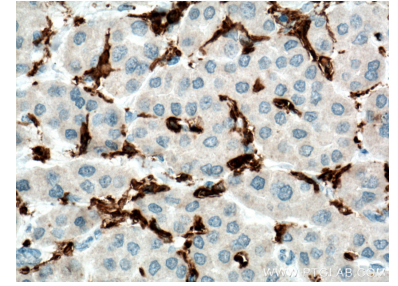
Selected Validation Data



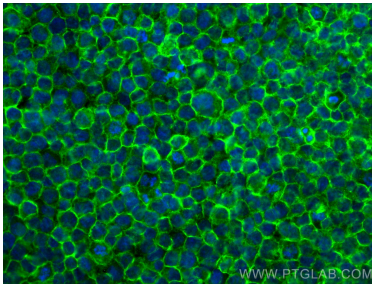
Untreated and PNGase F-treated lysates of THP-1 cells and Mo7e cells were subjected to SDS PAGE followed by western blot with 66529-1-Ig (FCGR2A / CD32a antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



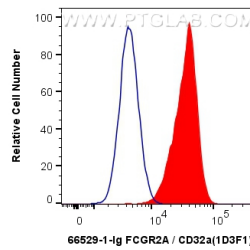
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66529-1-Ig (FCGR2A / CD32a antibody) at dilution of 1:5000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66529-1-Ig (FCGR2A / CD32a antibody) at dilution of 1:5000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed THP-1 cells using FCGR2A / CD32a antibody (66529-1-Ig, Clone: 1D3F1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1X10⁶ THP-1 cells were intracellularly stained with 0.4 ug Anti-Human FCGR2A / CD32a (66529-1-Ig, Clone:1D3F1) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2b Isotype Control (MPC-11) (65128-1-Ig, Clone: MPC-11) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm

