For Research Use Only

CD16 Monoclonal antibody

Catalog Number:66779-1-Ig 5 Publications

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Basic Information

Catalog Number:
66779-1-Ig

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG9787

GenBank Accession Number:
BC017865

GeneID (NCBI):
2214

ENSEMBL Gene ID:
ENSG00000203747

UNIPROT ID:
P08637

Full Name:
Fc fragment of IgG, low affinity IIIa, receptor (CD16a)

Calculated MW:
254 aa, 29 kDa

Purification Method:
Protein G purification

CloneNo.:
1E12E11

Recommended Dilutions:
IHC: 1:2500-1:10000
IF-P: 1:200-1:800

Applications

Tested Applications:
IHC, IF-P, ELISA

Cited Applications:
IHC, IF

Species Specificity:
human

Cited Species:
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:

IHC : human liver tissue, human tonsillitis tissue

IF-P : human tonsillitis tissue,

Background Information

CD16 is a 50-70-kDa low affinity Fc receptor found on the surface of natural killer cells, neutrophil polymorphonuclear leukocytes, monocytes and macrophages. CD16 mediates antibody-dependent cellular cytotoxicity (ADCC) and other antibody-dependent responses, such as phagocytosis. CD16 has been identified as Fc receptors Fcγ RIIIa (CD16a) and Fcγ RIIIb (CD16b), encoded by two nearly identical genes, FCGR3A and the FCGR3B.

Notable Publications

Author	Pubmed ID	Journal	Application
Yanping Li	36213822	J Oncol	IF
Rongrong Liu	42562938	Mol Psychiatry	
Yahan Ju	42435791	Exp Eye Res	

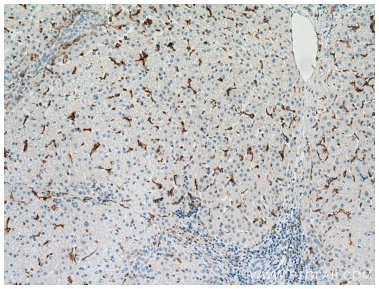
Storage

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

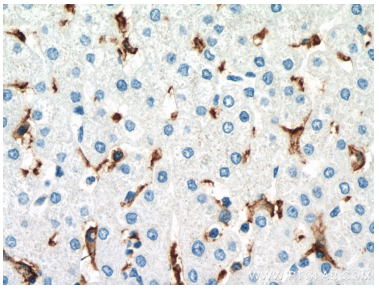
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

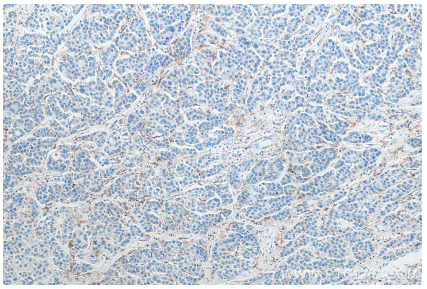
Selected Validation Data



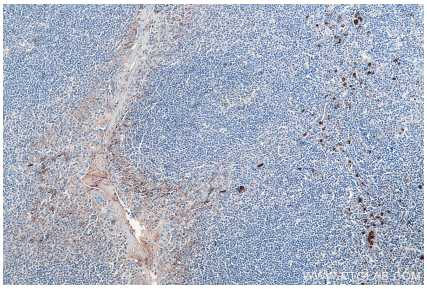
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66779-1-Ig (CD16 antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



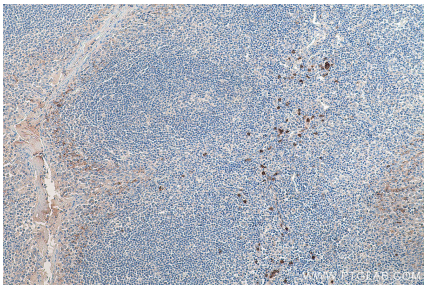
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66779-1-Ig (CD16 antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



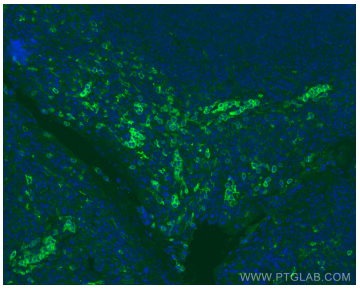
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66779-1-Ig (CD16 antibody) at dilution of 1:8000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66779-1-Ig (CD16 antibody) at dilution of 1:6000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66779-1-Ig (CD16 antibody) at dilution of 1:8000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human tonsillitis tissue using CD16 antibody (66779-1-Ig, Clone: 1E12E11) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).