CD32 Monoclonal Mouse Antibody (8.7)

Product Description

This MAb reacts with a CD32 (FcgRII) epitope distinct from that defined by MAb 8.26 and the epitope overlaps with that of MAb 7.30 (cluster 4). It displays a stronger reaction with Daudi than with U937 cells. The epitope is located in domain 2 of FcgRIIa. Its Fab'2 fragments block immune complex binding. CD32 (FcgRII) is a type 1 transmembrane glycoprotein that mediates several functions including phagocytosis, cytotoxicity, and immunomodulation as well as platelet aggregation. Three genes (A, B, and C) encode CD32 and at least 6 isoforms are generated via alternative mRNA splicing, i.e., Ila1, Ila2, Ilb1, Ilb2, Ilb3 and Ilc. Monocytes/macrophages, placental trophoblasts and endothelial cells express all isoforms. In addition, the IIb isoform is expressed by B cells, and the IIa isoform by platelets, granulocytes and, weakly, by B cells. NK cells and neutrophils express Isoform IIc. CD32 binds weakly to platelets, grantiocytes and, weakly, by B cells. NR cells and retirophilis express isolonn nc. CD32 billios weakly to the Fc region of monomeric IgG but more strongly to IgG aggregates and immune complexes. Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. See the CF® Dye Brochure for more information. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors. Stock status: Because Biotium offers a large number of antibody and conjugation options, primary antibody conjugates may be made to order. Typical lead times are up to one week for CF® dye and biotin conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. Please email order@biotium.com to inquire about stock status and lead times before placing your order. Catalog number key for antibody number 1079, Anti-CD32 (8.7)

References

Note: References for this clone sold by other suppliers may be listed for expected applications.

- 1. J Immunol (1993) 150(5): 1794-1803. (Flow; IP; epitope mapping)
- 2. J Exp Med (2001) 194(6): 747-756. (functional studies) 3. J Immunol (2014) 192:792-803. (Flow)

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Product attributes				
Antibody number	#1079			
Antibody reactivity	CD32			
(target) Antibody type	Primary			
Host species	Mouse			
Clonality	Monoclonal			
Clone	8.7			
Isotype	IgG1, kappa			
Molecular weight	40 kDa			
Synonyms	CD32A; Fc fragment of IgG low affinity Ila receptor; Fc gamma RIIa; Fc-gamma RIIa; Fc-gamma-RIIa; Fc-g-RiII-a; IGFR2; IgG Fc receptor II-a; Low affinity immunoglobulin gamma Fc region receptor II-a; Ly-17; Ly-m20; LyM-1; Lymphocyte antigen 17			
Human gene symbol	FCGR2A			
Entrez gene ID	2212			
SwissProt	P12318			
Unigene	352642			
Immunogen	K562 and FcgRII L cells			
Antibody target cellular	Plasma membrane			
Species reactivity	Human			
Expected antibody applications	Flow, surface (published for clone), Functional studies (published for clone), IP (published for clone)			
Antibody application notes	Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunofluorescence: 0.5-1 ug/mL, Flow Cytometry 0.5-1 ug/mllion cells/0.1 mL, Optimal dilution for a specific application should be determined by user			
Positive control	K-562 cells. Lymph node, tonsil and placenta.			
Shipping condition	Room temperature			
Storage Conditions	Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C			
Shelf life	Guaranteed for at least 24 months from date of receipt when stored as recommended			
Regulatory status	For research use only (RUO)			
Antibody/conjugate formulation	Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purified, BSA-free: 1 mg/mL in PBS without azide			
Antibody research areas	Immunology			
Cell/tissue expression	Endothelial cells			

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Antibody # prefix	Conjugation	Ex/Em (nm)	Laser line	Detection channel	Dye Features
BNC04	CF®405S	404/431	405	DAPI (microscopy), AF405	CF®405S Features
BNC88	CF®488A	490/515	488	GFP, FITC	CF®488A Features
BNC68	CF®568	562/583	532, 561	RFP, TRITC	CF®568 Features
BNC94	CF®594	593/614	561	Texas Red®	CF®594 Features
BNC40	CF®640R	642/662	633-640	Cy®5	CF®640R Features
BNC47	CF®647	650/665	633-640	Cy®5	CF®647 Features
BNCB	Biotin	N/A	N/A	N/A	
BNUB	Purified	N/A	N/A	N/A	
BNUM	Purified, BSA-free	N/A	N/A	N/A	

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