CD18 Monoclonal Mouse Antibody (68-5A5)

Product Description

This antibody recognizes a transmembrane glycoprotein of 95 kDa, identified as CD18 or integrin -2 (Workshop III). It complexes non-covalently with either L, M, or X integrin (CD11a, b, or c) to form the heterodimers, LFA-1, Mac-1, and p150,95, respectively. LFA-1 is the receptor for three members of the Ig supergene family of proteins, ICAM-1 (CD54), ICAM-2 (CD102), and Mac-1 and p150,95 bind to ICAM-1, fibrinogen, and iC3b. ICAM-3 (CD50). CD18/CD11 heterodimeric molecules are involved with cell/cell and cell/extracellular adhesion in immune and inflammatory responses. This MAb blocks these cellular interactions. Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. See 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 0321, Anti-CD18 (68-5A5)

References

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

- 1. J Leukocyte Biol (1993) 54(1), 47-55. (Flow)
- 2. Am J Respir.Cell Mol Biol (2004) 30, 333-341. (functional studies)

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Product attributes			
Antibody number	#0321		
Antibody reactivity	CD18		
(target) Antibody type	Primary		
Host species	Mouse		
Clonality	Monoclonal		
Clone	68-5A5		
Isotype	IgG2a, kappa		
Molecular weight	95 kDa		
Synonyms	CD11 antigen-like family member B; CD11b/CD18; CD49d; Cell surface glycoprotein MAC-1 subunit alpha; Complement Component Receptor 3 Alpha; CR3 Alpha Chai (CR3A); Integrin alpha-M; Integrin beta 2 alpha subunit; TGAM; Leukocyte adhesion receptor MO1; Ly-40; Mac-1a; MAC1; Macrophage antigen alpha polypeptide; MO1A; Neutrophil adherence receptor alpha M subunit		
Human gene symbol	ITGB2		
Entrez gene ID	3689		
SwissProt	P05107		
Unigene	375957		
Immunogen	Stimulated human leukocytes		
Antibody target cellular	Plasma membrane		
Species reactivity	Human		
Expected antibody applications	Flow, surface (published for clone), Functional studies (published for clone)		
Antibody application notes	Higher concentration may be required direct detection using primary antibod conjugates than for indirect detection with secondary antibody. Immunofluorescence: 0.5-1 ug/ml., Fl Cytometry 0.5-1 ug/million cells/0.1 m Optimal dilution for a specific applicat should be determined by user		
Positive control	Lymphocytes, granulocytes, and macrophages in tonsil or lymph node.		
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, Inflammation		

Email: btinfo@biotium.com

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,	N/A	N/A	N/A	

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