

CD18 / Integrin beta-2 (ITGB2) Antibody - With BSA and Azide
Mouse Monoclonal Antibody [Clone 68-5A5]
Catalog # AH11611**Specification****CD18 / Integrin beta-2 (ITGB2) Antibody - With BSA and Azide - Product Information**

Application	IF, FC
Primary Accession	P05107
Other Accession	3689 , 375957
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG2a, kappa
Calculated MW	95kDa KDa

CD18 / Integrin beta-2 (ITGB2) Antibody - With BSA and Azide - Additional Information**Gene ID** 3689**Other Names**

Integrin beta-2, Cell surface adhesion glycoproteins LFA-1/CR3/p150, 95 subunit beta, Complement receptor C3 subunit beta, CD18, ITGB2, CD18, MFI7

Application Note

IF~~1:50~200
FC~~1:10~50

Storage

Store at 2 to 8°C. Antibody is stable for 24 months.

Precautions

CD18 / Integrin beta-2 (ITGB2) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

CD18 / Integrin beta-2 (ITGB2) Antibody - With BSA and Azide - Protein Information**Name** ITGB2**Synonyms** CD18, MFI7**Function**

Integrin ITGAL/ITGB2 is a receptor for ICAM1, ICAM2, ICAM3 and ICAM4. Integrin ITGAL/ITGB2 is also a receptor for the secreted form of ubiquitin-like protein ISG15; the interaction is mediated by ITGAL (PubMed: <http://www.uniprot.org/citations/29100055> target="_blank">29100055). Integrins ITGAM/ITGB2 and ITGAX/ITGB2 are receptors for the iC3b fragment of the third complement component and for fibrinogen. Integrin ITGAX/ITGB2 recognizes the sequence G-P-R in fibrinogen alpha-chain. Integrin ITGAM/ITGB2 recognizes P1 and P2 peptides of fibrinogen gamma chain. Integrin ITGAM/ITGB2 is also a receptor for factor X.

Integrin ITGAD/ITGB2 is a receptor for ICAM3 and VCAM1. Contributes to natural killer cell cytotoxicity (PubMed:15356110). Involved in leukocyte adhesion and transmigration of leukocytes including T-cells and neutrophils (PubMed:11812992, PubMed:28807980). Triggers neutrophil transmigration during lung injury through PTK2B/PYK2-mediated activation (PubMed:18587400). Integrin ITGAL/ITGB2 in association with ICAM3, contributes to apoptotic neutrophil phagocytosis by macrophages (PubMed:23775590). In association with alpha subunit ITGAM/CD11b, required for CD177-PRTN3- mediated activation of TNF primed neutrophils (PubMed:21193407).

Cellular Location

Cell membrane; Single-pass type I membrane protein. Membrane raft; Single-pass type I membrane protein

Tissue Location

Leukocytes (PubMed:23775590). Expressed in neutrophils (at protein level) (PubMed:21193407, PubMed:28807980)

CD18 / Integrin beta-2 (ITGB2) Antibody - With BSA and Azide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CD18 / Integrin beta-2 (ITGB2) Antibody - With BSA and Azide - Images

CD18 / Integrin beta-2 (ITGB2) Antibody - With BSA and Azide - Background

It recognizes a transmembrane glycoprotein of 95kDa, 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.

CD18 / Integrin beta-2 (ITGB2) Antibody - With BSA and Azide - References

Leucocyte Typing III, (ed. McMichael AJ et. al.), Oxford Univ. Press, Oxford, 1987