

For Research Use Only

CD41/Integrin alpha 2b Monoclonal antibody

Catalog Number: 60350-1-Ig 1 Publications



Basic Information

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| Catalog Number: 60350-1-Ig | GenBank Accession Number: BC126442 | Purification Method: Protein G purification |
| Size: 150ul , Concentration: 1800 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 3674 | CloneNo.: 6D7C5 |
| Source: Mouse | UNIPROT ID: P08514 | Recommended Dilutions: WB 1:500-1:3200 |
| Isotype: IgG1 | Full Name: integrin, alpha 2b (platelet glycoprotein IIb of IIb/IIIa complex, antigen CD41) | |
| | Calculated MW: 113 kDa | |
| | Observed MW: 125 kDa | |

Applications

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| Tested Applications: WB, ELISA | Positive Controls: WB : human spleen tissue, |
| Cited Applications: WB | |
| Species Specificity: human | |
| Cited Species: human | |

Background Information

The integrins are a superfamily of cell adhesion receptors that bind to extracellular matrix ligands, cell-surface ligands, and soluble ligands (PMID: 17543136). They are transmembrane $\alpha\beta$ heterodimers and at least 24 distinct integrin heterodimers are formed by the combination of 18 α and eight β known subunits (PMID: 17543136; 20029421). In addition to mediating cell adhesion, integrins also play important roles in modulating signal transduction pathways that control cellular responses including migration, proliferation, differentiation, and apoptosis (PMID:19118207). Integrin alpha-IIb (ITGA2B, CD41) is expressed on platelets, megakaryocytes and some hematopoietic progenitor cells (PMID: 11934866). This protein undergoes post-translational cleavage to yield disulfide linked light (25 kDa) and heavy (125 kDa) chains which join with integrin beta3 (CD61) to form a receptor for fibronectin, fibrinogen, plasminogen, prothrombin, thrombospondin and vitronectin. Integrin alpha-IIb/beta-3 is crucial for platelet aggregation through binding of soluble fibrinogen.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|----------|-----------|-------------|-------------|
| Molin Li | 38374439 | Commun Biol | WB |

Storage

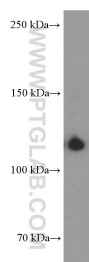
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



human spleen tissue were subjected to SDS PAGE followed by western blot with 60350-1-Ig (CD41/Integrin alpha 2b Antibody) at dilution of 1:1600 incubated at room temperature for 1.5 hours.