

CD41 Recombinant monoclonal antibody

Catalog Number: 87447-4-RR

Basic Information

Catalog Number:

87447-4-RR

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG10496

GenBank Accession Number:

GeneID (NCBI):

3674

UNIPROT ID:

P08514

Full Name:

integrin, alpha 2b (platelet glycoprotein IIb of IIb/IIIa complex, antigen CD41)

Observed MW:

110-125 kDa

Purification Method:

Protein A purification

CloneNo.:

252680C11

Recommended Dilutions:

WB: 1:5000-1:50000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : human peripheral blood platelets,

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 beta (25 kDa) and heavy alpha (125 kDa) chains, which join with integrin beta3 (CD61) to form a receptor for fibronectin, fibrinogen, plasminogen, prothrombin, thrombospondin and vitronectin. CD41/CD61 is crucial for platelet aggregation through binding of soluble fibrinogen. Jurkat and U937 cell lines are negative controls for CD41 (PMID: 2351656).

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

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87447-4-RR (ITA2B antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.