Integrin α2 Monoclonal Antibody

Catalog No	YP-mAb-17097
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	ITGA2
Protein Name	Integrin alpha-2
Immunogen	The antiserum was produced against synthesized peptide derived from the C-terminal region of human ITGA2. AA range:1081-1130
Specificity	Integrin α2 Monoclonal Antibody detects endogenous levels of Integrin α2 protein
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/ 1 year
Synonyms	ITGA2; CD49B; Integrin alpha-2; CD49 antigen-like family member B; Collagen receptor; Platelet membrane glycoprotein Ia; GPIa; VLA-2 subunit alpha; CD49b
Observed Band	150kD
Calculated Molecular Weight	130kD
Cell Pathway	Membrane; Single-pass type I membrane protein.
Tissue Specificity	Endothelial cell,Liver,Platelet,
Function	domain:The integrin I-domain (insert) is a VWFA domain. Integrins with I-domains do not undergo protease cleavage.,function:Integrin alpha-2/beta-1 is a receptor for laminin, collagen, collagen C-propeptides, fibronectin and E-cadherin. It recognizes the proline-hydroxylated sequence G-F-P-G-E-R in collagen. It is responsible for adhesion of platelets and other cells to collagens, modulation of collagen and collagenase gene expression, force generation and organization of newly synthesized extracellular matrix.,polymorphism:Position 534 is associated with platelet-specific alloantigen HPA-5 (Br). HPA-5A/Br(a) has Lys-534 and HPA-5B/Br(b) has Glu-534. HPA-5B is involved in neonatal alloimmune thrombocytopenia (NAIT or NATP). The Lys-534-Glu polymorphism may play a role in coronary artery disease (CAD).,similarity:Belongs to the integrin alpha chain family.,similarity:Contains 1 VWFA domai

Background	integrin subunit alpha 2(ITGA2) Homo sapiens This gene encodes the alpha subunit of a transmembrane receptor for collagens and related proteins. The encoded protein forms a heterodimer with a beta subunit and mediates the adhesion of platelets and other cell types to the extracellular matrix. Loss of the encoded protein is associated with bleeding disorder platelet-type 9. Antibodies against this protein are found in several immune disorders, including neonatal alloimmune thrombocytopenia. This gene is located adjacent to a related alpha subunit gene. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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