Human Integrin α5/CD49e Alexa Fluor® 700-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 612557

Catalog Number: FAB18642N

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Integrin α5/CD49e in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant mouse Integrin α5, recombinant human (rh) Integrin α1, 2, 3, 4, 6, 7x2, 8, 9, 10, 11, M, X, D, or rhIntegrin β1 is
Source	Monoclonal Mouse IgG_{2A} Clone # 612557
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Integrin α5/CD49e Phe42-Tyr995 Accession # P08648
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Integrin α5, also known as CD49e and vitronectin receptor subunit α, is a 140-150 kDa integrin alpha chain that forms dimers with at least five beta chains including β1, 3, 5, 6, and 8. It is a 1018 amino acid (aa) residue type I membrane protein with a large (962 aa) extracellular domain (ECD) and a short (32 aa) cytoplasmic tail. The N-terminal region of Integrin α5, which is important for ligand binding, contains seven FG-GAP (phenylalanyl-glycyl and glycyl-alanyl-prolyl) consensus repeats that fold into a β-propeller domain. Furin cleavage of the Integrin α5 ECD occurs after Gly 889, generating a disulfide-linked, heteromeric subunit Integrin α5 chain. Integrin α5-containing integrins bind multiple ECM molecules, including Vitronectin, Osteopontin, MMP-2, and TSP. The ECD of human Integrin α5 shares 92% aa sequence identity with mouse Integrin α5 ECD.

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