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KD-Validated Anti-Integrin alpha 5 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI2392

Product Information

Application	WB, FC, ICC
Primary Accession	P08648
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB880
Calculated MW	114536
Gene Name	ITGA5
Aliases	CD49e; FNRA; Integrin, Alpha 5 (Fibronectin Receptor, Alpha Polypeptide); Fibronectin Receptor, Alpha Polypeptide; Fibronectin Receptor Subunit Alpha; CD49 Antigen-Like Family Member E; Integrin Alpha-5; Integrin Alpha-F; VLA-5; Very Late Activation Protein 5, Alpha Subunit; Fibronectin Receptor, Alpha Subunit; ITGA5/SLC9B1 Fusion; CD49e Antigen; VLA5A
Immunogen	A synthesized peptide derived from human integrin alpha 5

Additional Information

Gene ID	3678
Other Names	Integrin alpha-5, CD49 antigen-like family member E, Fibronectin receptor subunit alpha, Integrin alpha-F, VLA-5, CD49e, Integrin alpha-5 heavy chain, Integrin alpha-5 light chain, ITGA5 (HGNC:6141), FNRA

Protein Information

Name	ITGA5 (HGNC:6141)
Synonyms	FNRA
Function	Integrin alpha-5/beta-1 (ITGA5:ITGB1) is a receptor for fibronectin and fibrinogen. It recognizes the sequence R-G-D in its ligands. ITGA5:ITGB1 binds to PLA2G2A via a site (site 2) which is distinct from the classical ligand-binding site (site 1) and this induces integrin conformational changes and enhanced ligand binding to site 1 (PubMed:18635536, PubMed:25398877). ITGA5:ITGB1 acts as a receptor for fibrillin-1 (FBN1) and mediates R-G-D-dependent cell adhesion to FBN1 (PubMed:12807887, PubMed:17158881). ITGA5:ITGB1 acts as a receptor for fibronectin (FN1) and mediates R-G-D-dependent cell adhesion to FN1 (PubMed:33962943). ITGA5:ITGB1 is a receptor for IL1B and binding is essential for IL1B signaling (PubMed:29030430). ITGA5:ITGB3 is a receptor for soluble CD40LG and is required for CD40/CD40LG signaling

	(PubMed:31331973). ITGA5:ITGB1 acts as a receptor for SNED1 and mediates R-G-D-dependent cell adhesion to SNED1 (PubMed:39713860).
Cellular Location	Cell membrane; Single-pass type I membrane protein. Cell junction, focal adhesion
Tissue Location	Expressed in placenta (at protein level).

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