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KD-Validated Anti-Integrin subunit alpha V Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1085

Product Information

Application	WB, FC, ICC
Primary Accession	P06756
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB 2240
Calculated MW	116038
Gene Name	ITGAV
Aliases	ITGAV; Integrin Subunit Alpha V; CD51; MSK8; VNRA; VTNR; Integrin, Alpha V (Vitronectin Receptor, Alpha Polypeptide, Antigen CD51); Antigen Identified By Monoclonal Antibody L230; Vitronectin Receptor Subunit Alpha; Vitronectin Receptor; Integrin Alpha-V; Integrin AlphaVbeta3; Integrin, Alpha V; CD51 Antigen
Immunogen	A synthesized peptide derived from human Integrin alpha V

Additional Information

Gene ID	3685
Other Names	Integrin alpha-V, Vitronectin receptor {ECO:0000312|HGNC:HGNC:6150}, Vitronectin receptor subunit alpha, CD51, Integrin alpha-V heavy chain, Integrin alpha-V light chain, ITGAV (HGNC:6150)

Protein Information

Name	ITGAV (HGNC:6150)
Function	The alpha-V (ITGAV) integrins are receptors for vitronectin, cytotactin, fibronectin, fibrinogen, laminin, matrix metalloproteinase- 2, osteopontin, osteomodulin, prothrombin, thrombospondin and vWF. They recognize the sequence R-G-D in a wide array of ligands. ITGAV:ITGB3 binds to fractalkine (CX3CL1) and may act as its coreceptor in CX3CR1- dependent fractalkine signaling (PubMed:23125415). ITGAV:ITGB3 binds to NRG1 (via EGF domain) and this binding is essential for NRG1-ERBB signaling (PubMed:20682778). ITGAV:ITGB3 binds to FGF1 and this binding is essential for FGF1 signaling (PubMed:18441324). ITGAV:ITGB3 binds to FGF2 and this binding is essential for FGF2 signaling (PubMed:28302677). ITGAV:ITGB3 binds to IGF1 and this binding is essential for IGF1 signaling (PubMed:19578119). ITGAV:ITGB3 binds to IGF2 and this binding is essential for IGF2 signaling (PubMed:28873464). ITGAV:ITGB3 binds to IL1B and this binding is essential for IL1B signaling

(PubMed:29030430). ITGAV:ITGB3 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). ITGAV:ITGB3 and ITGAV:ITGB6 act as receptors for fibrillin-1 (FBN1) and mediate R-G-D-dependent cell adhesion to FBN1 (PubMed:12807887, PubMed:17158881). Integrin alpha-V/beta-6 or alpha- V/beta-8 (ITGAV:ITGB6 or ITGAV:ITGB8) mediates R-G-D-dependent release of transforming growth factor beta-1 (TGF-beta-1) from regulatory Latency-associated peptide (LAP), thereby playing a key role in TGF- beta-1 activation (PubMed:15184403, PubMed:22278742, PubMed:28117447). ITGAV:ITGB3 acts as a receptor for CD40LG (PubMed:31331973). ITGAV:ITGB3 acts as a receptor for IBSP and promotes cell adhesion and migration to IBSP (PubMed:10640428). ITGAV:ITGB3 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

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