Integrin Alpha V (ITGaV) Antibody Pair Kit for Mouse

PRODUCT OVERVIEW

Product Name	Integrin Alpha V (ITGaV), Antibody Pair Kit
Full Product Name	Mouse Integrin Alpha V (ITGaV) Antibody Pair Kit (with Standard)
Product Gene Name	ITGaV antibody pair kit
Product Synonym Names	CD51; ITG-AV; MSK8; VNRA; Vitronectin Receptor,Alpha Polypeptide
Species Reactivity	Mouse
Samples	Serum, Plasma, Tissue Homogenates, Cell Lysates, Cell Culture Supernates and Other Biological Fluids
Detection Range	31.2-2000ng/mL
Molecular Weight	111,132 Da
OMIM	M14648 mRNA
3D Structure	ModBase 3D Structure for P06756
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Standard	Recombinant ITGaV (Lyophilized, 1 vial-10ug)
Capture Antibody	Rabbit polyclonal antibody (Liquid, 1 vial-400mug/800muL)
Detection Antibody	Biotinylated Rabbit polyclonal antibody (Liquid, 1 vial-100mug/500muL)
Producte Usage	Raw materials can be used for preparation of 5x96T or 10x96T ELISA Kits.
Antibody Support Pack	Antibody Support Pack (Buffer Pack) is sold separately as catalog #MBS2090685
Product Categories/Family for ITGaV antibody pair kit	CD & Adhesion molecule
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for ITGaV antibody pair kit	ELISA (EIA), Chemiluminescence Immunoassays (CLIA), ELISPOT, Luminex
Related Product Information for ITGaV antibody pair kit	MBS2100148 is an antibody pair kit targeting ITGaV. Also known as Mouse Integrin Alpha V (ITGaV) Antibody Pair Kit (with Standard). Reactive in Mouse.
Other Notes	Small volumes of ITGaV antibody pair kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ITGaV. It may not necessarily be applicable to this product.

NCBI GI #	223468597
NCBI GeneID	3685
NCBI Accession #	NP_001138472.1
UniProt Primary Accession #	P06756

UniProt Secondary Accession #	Q53SK4; Q59EB7; Q6LD15; A0AV67; B0LPF4; B7Z883; B7ZLX0; D3DPG8; E7EWZ6
UniProt Related Accession #	P06756
GenBank Nucleotide #	NM_001145000.2
NCBI Official Full Name	integrin alpha-V isoform 3
NCBI Official Synonym Full Names	integrin subunit alpha V
NCBI Official Symbol	ITGAV
NCBI Official Synonym Symbols	CD51; MSK8; VNRA; VTNR
UniProt Protein Name	Integrin alpha-V
UniProt Synonym Protein Names	Vitronectin receptor
Protein Family	Integrin
UniProt Gene Name	ITGAV
NCBI Protein Information	integrin alpha-V
NCBI Summary for ITGaV	The product of this gene belongs to the integrin alpha chain family. Integrins are heterodimeric integral membrane proteins composed of an alpha subunit and a beta subunit that function in cell surface adhesion and signaling. The encoded preproprotein is proteolytically processed to generate light and heavy chains that comprise the alpha V subunit. This subunit associates with beta 1, beta 3, beta 5, beta 6 and beta 8 subunits. The heterodimer consisting of alpha V and beta 3 subunits is also known as the vitronectin receptor. This integrin may regulate angiogenesis and cancer progression. Alternative splicing results in multiple transcript variants. Note that the integrin alpha 5 and integrin alpha V subunits are encoded by distinct genes. [provided by RefSeq, Oct 2015]
UniProt Comments for ITGaV	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 IGF1 and this binding is essential for IGF1 signaling (PubMed:19578119). 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 a receptor for fibrillin-1 (FBN1) and mediate R-G-D-dependent cell adhesion to FBN1 (PubMed:12807887, PubMed:17158881).
Research Articles on ITGaV	**1.** this study uncovers a novel pathway by which the TGFbeta-activating integrin alphavbeta8 is expressed in the human intestine on dendritic cell subsets, which is upregulated in patients with inflammatory bowel disease
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