CD292 Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	CD292, Polyclonal Antibody
Full Product Name	CD292 Polyclonal Antibody
Product Gene Name	anti-CD292 antibody
Clonality	Polyclonal
Molecular Weight	60,198 Da
OMIM	174900
3D Structure	ModBase 3D Structure for P36894
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-CD292 antibody	MBS8526509 is an antibody targeting CD292. Also known as CD292 Polyclonal Antibody.
Other Notes	Small volumes of anti-CD292 antibody 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 CD292. It may not necessarily be applicable to this product.

NCBI GI #	41349437
NCBI GeneID	657
NCBI Accession #	NP_004320.2
UniProt Primary Accession #	P36894
UniProt Secondary Accession #	Q8NEN8; A8K6U9
UniProt Related Accession #	P36894
GenBank Nucleotide #	NM_004329.2
NCBI Official Full Name	bone morphogenetic protein receptor type-1A
NCBI Official Synonym Full Names	bone morphogenetic protein receptor type 1A
NCBI Official Symbol	BMPR1A
NCBI Official Synonym Symbols	ALK3; SKR5; CD292; ACVRLK3; 10q23del
UniProt Protein Name	Bone morphogenetic protein receptor type-1A
UniProt Synonym Protein Names	Activin receptor-like kinase 3; ALK-3; Serine/threonine-protein kinase receptor R5; SKR5; CD_antigen: CD292
Protein Family	Bone morphogenetic protein receptor
UniProt Gene Name	BMPR1A
UniProt Synonym Gene Names	ACVRLK3; ALK3; BMP type-1A receptor; BMPR-1A; ALK-3; SKR5
NCBI Protein Information	bone morphogenetic protein receptor type-1A

NCBI Summary for CD292	The bone morphogenetic protein (BMP) receptors are a family of transmembrane serine/threonine kinases that include the type I receptors BMPR1A and BMPR1B and the type II receptor BMPR2. These receptors are also closely related to the activin receptors, ACVR1 and ACVR2. The ligands of these receptors are members of the TGF-beta superfamily. TGF-betas and activins transduce their signals through the formation of heteromeric complexes with 2 different types of serine (threonine) kinase receptors: type I receptors of about 50-55 kD and type II receptors of about 70-80 kD. Type II receptors bind ligands in the absence of type I receptors, but they require their respective type I receptors for signaling, whereas type I receptors require their respective type II receptors for ligand binding. [provided by RefSeq, Jul 2008]
UniProt Comments for CD292	On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. Receptor for BMP2, BMP4, GDF5 and GDF6. Positively regulates chondrocyte differentiation through GDF5 interaction. Mediates induction of adipogenesis by GDF6.
Research Articles on CD292	**1.** both bone morphogenetic protein 2 (BMP2) and BMP6 are proangiogenic in vitro and ex vivo and that the BMP type I receptors, activin receptor-like kinase 3 (ALK3) and ALK2, play crucial and distinct roles in this process.
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