

Product Information

MemDX™ Membrane Protein Human ITGA8 (Integrin subunit alpha 8) Full Length

Cat. No.: **MPC3009K**

This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human ITGA8 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

ITGA8

Protein Length

Full length

Protein Class

Cell adhesion

TMD

1

Sequence

MSPGASRGRPGSQAPLIAPLCCAAAALGMLLWSPACQAFNLDVEKLTVYS
GPKGSYFGYAVDFHIPDARTASVLVGAPKANTSQPDIVEGGAVYYCPWPA
EGSAQCRQIPFDTTNNRKIRVNGTKEPIEFKSNQWFGATVKAHKGKVAC
APLYHWRTLKPTPEKDPVGTCYVAIQNFSAYAEFSPCRNSNADPEGQGYC
QAGFSLDFYKNGDLIVGGPGSFYWQQGVITASVADIANYSFKDILRKLA
GEKQTEVAPASYDDSYLGYSVAAGEFTGDSQQELVAGIPRGAQNFGYVSI
INSTDMTFIQNFTGEQMASYFGYTVVSDVNSDGLDDVLVGAPLFMEREF
ESNPREGQIYLYLQVSSLLFRDPQILTGTETFGFRFGSAMAHLGDLNQDG
YNDIAIGVPFAGKDQRGKVLINNGNKDGLNTKPSQVLQGVWASHAVPSGF
GFTLRGSDSDIDKNDYPDLIVGAFGTGKVAVYRARPVVTVDQQLLHPMII
NLENKTCQVPDSMTSAACFSLRVCASVTGQSIANTIVLMAEVQLDSLKQK
GAIKRTLFLDNHQAHRVFPLVIKQKSHQCQDFIVYLRDETEFRDKLSPI
NISLNYSLDESTFKEGLEVKPILNYYRENIVSEQAHILVDCGEDNLCVPD
LKLSARPDKHQVIGDENHMLIINARNEGEGAYEAEFVMIPEEADYVG
IERNNKGFRPLSCEYKMENVTRMVVCDLGNPMVSGTNYSLGLRFAVPRLE
KTNMSINFDLQIRSSNKDNPDSNFVSLQINITAVAQVEIRGVSHPPQIVL
PIHNWEPEEEPHKEEEVGPLVEHIYELHNIGPSTISDTILEVGWPFSAARD
EFLLYIFHIQTLGPLQCQPNPNINPQDIKPAASPEDTPELSAFLRNSTIP
HLVRKRDVHVVEFHRQSPAKILNCTNIECLQISCAVGRLEGGESAVLKVR
SRLWAHTFLQRKNDPYALASLVSEFVKKMPYTDQPAKLPEGSIVIKTSVI
WATPNVSFSIPLWVILAILLGLLVAILTLALWKCGFFDRARPPQEDMT
DREQLTNDKTPEA

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

ITGA8

Full Name

Integrin subunit alpha 8

Introduction

Integrins are heterodimeric transmembrane receptor proteins that mediate numerous cellular processes including cell adhesion, cytoskeletal rearrangement, and activation of cell signaling pathways. Integrins are composed of alpha and beta subunits. This gene encodes the alpha 8 subunit of the heterodimeric integrin alpha8beta1 protein. The encoded protein is a single-pass type 1 membrane protein that contains multiple FG-GAP repeats. This repeat is predicted to fold into a beta propeller structure. This gene regulates the recruitment of mesenchymal cells into epithelial structures, mediates cell-cell interactions, and regulates neurite outgrowth of sensory and motor neurons. The integrin alpha8beta1 protein thus plays an important role in wound-healing and organogenesis. Mutations in this gene have been associated with renal hypodysplasia/aplasia-1 (RHDA1) and with several animal models of chronic kidney disease. Alternate splicing results in multiple transcript variants encoding distinct isoforms.

Alternative Names

ITGA8; integrin alpha-8; integrin, alpha 8; Integrin subunit alpha 8

Gene ID

[8516](#)

UniProt ID

[P53708](#)