

Product Information

MemDX™ Membrane Protein Human ITGA8 (Integrin subunit alpha 8) for Antibody

Discovery

Cat. No.: **MP0729J**

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

This product is a 117.3 kDa Human ITGA8 membrane protein expressed in HEK293T. 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

Druggable Genome, Transmembrane

Molecular Weight

117.3 kDa

TMD

1

Sequence

MSPGASRGPRGSQAPLIAPLCACAAAALGMLLWSPACQAFNLDVEKLTVYSGPKGSYFGYAVDFHIPDART
ASVLVGAPKANTSQPDIVEGGAVYYCPWPAEGSAQCRQIPFDTTNNRKIRVNGTKEPIEFKSNQWFGATV
KAHKGKVVACAPLYHWRTLKPTPEKDPVGTCYVAIQNFSAAYEFSPCRNSNADPEGQGYCQAGFSLDFYK
NGDLIVGGPGSFYWQGGVITASVADIANYSFKDILRKLAGEKQTEVAPASYDDSYLGYSVAAGEFTGDS
QQELVAGIPRGAQNFYGVSIINSTDMTFIQNFTGEQMASYFGYTVVSDVNSDGLDDVLVGAPLFMEREF
ESNPREVGGQIYLYLQVSSLLFRDPQILTGTETFGFRFGSAMAHLGDLNQDGYNDIAIGVPFAGKDQGRKVL
IYNGNKDGLNTKPSQVLQGVWASHAVPSGFGFTLRGDSIDKNDYPDLIVGAFGTGKVAVYRARPVVTVD
AQLLLHPMIINLENKTCQVPDSMTSAACFSLRVCASVTGQSIANTIVLMAEVQLDSLKQKGAIKRTLFLD
NHQAHRVFPVLIKQKSHQCQDFIVYLRDETEFRDKLSPINISLNYSLDESTFKEGLEVKPILNYYRENI
VSEQAHLVDCGEDNLCVPDLKLSARPDKHQVIIGDENHMLLIINARNEGEGAYEAELFVMIPEEADYVG
IERNNKGFRPLSCEYKMENVTRMVVCDLGNPMVSGTNYSLGLRFVPRLEKTNMSINFDLQIRSSNKDNP
DSNFVSLQINITAVAQVEIRGVSHPPQIVLPINWEPPEEPHKEEEVGPLVEHIYELHNIGPSTISDTIL
EVGWPF SARDEFLLYIFHIQTLGPLQCQPNPNINPQDIKPAASPEDTPELSAFLRNSTIPHLVRKRDVHV
VEFHRQSPAKILNCTNIECLQISCAVGRLEGGESAVLKVRSRLWAHTFLQRKNDPYALASLVSEVKKMP
YTDQPAKLPEGSIAIKTSVIWATPNVSFSIPLWVILAILLGLLVAILTLALWKCGFFDRARPPQEDMT
DREQLTNDKTPEA

Product Description

Expression Systems

HEK293T

Tag

C-Myc/DDK

Form

Liquid

Purification

Anti-DDK affinity column followed by conventional chromatography steps

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

Storage

Store at +4°C for up to one week or several months at -80°C

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

integrin, alpha 8; OTTHUMP00000019207

Gene ID

[8516](#)

UniProt ID

[P53708](#)