SUITE 203, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-416-1478 Fax: 1-631-207-8356
Email: info@creative-biolabs.com
www.creative-biolabs.com

Product Information

MemDX™ Membrane Protein Human MPEG1 (Macrophage expressed 1)

Cat. No.: **MP0245J**
This product is for research use only and is not intended for diagnostic use.

This product is a 78.4 kDa Human MPEG1 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
MPEG1

Protein Length
Full-length

Protein Class
Transmembrane

Molecular Weight
78.4 kDa

TMD
1

Sequence
MNNFRATILFWAAAAWAKSGKPSGEMDEVGVQKCKNALKLPVLEVLPGGGWDNLRNVDMGRVMELTYSNC
RTTEDGQYIIPDEIFTIPQKQSNLEMNSEILESWANYQSSTSYSINTELSLFSKVNGKFSTEFQRMKTLQ
VKDQAITTRVQVRNLVYTVKINPTLELSSGFRKELLDISDRLENNQTRMATYLAELLVLNYGTHVTTSVD
AGAALIQEDHLRASFLQDSQSSRSAVTASAGLAFQNTVNFKFEENYTSQNVLTKSYLSNRTNSRVQSIGG
VPFYPGITLQAWQQGITNHLVAIDRSGLPLHFFINPNMLPDLPGPLVKKVSKTVETAVKRYYTFNTYPGC
TDLNSPNFNFQANTDDGSCEGKMTNFSFGGVYQECTQLSGNRDVLLCQKLEQKNPLTGDFSCPSGYSPVH
LLSQIHEEGYNHLECHRKCTLLVFCKTVCEDVFQVAKAEFRAFWCVASSQVPENSGLLFGGLFSSKSINP
MTNAQSCPAGYFPLRLFENLKVCVSQDYELGSRFAVPFGGFFSCTVGNPLVDPAISRDLGALSLKKCPGG
FSQHPALISDGCQVSYCVKSGLFTGGSLPPARLPPFTRPPLMSQAATNTVIVTNSENARSWIKDSQTHQW
RLGEPIELRRAMNVIHGDGGGLSGGAAAGVTVGVTTILAVVITLAIYGTRKFKKKAYQAIEERQSLVPGT
AATGDTTYQEQGQSPA

Product Description

Expression Systems
HEK293T

Tag

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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

MPEG1

Full Name

Macrophage expressed 1

Introduction

Plays a key role in the innate immune response following bacterial infection by inserting into the bacterial surface to form pores. By breaching the surface of phagocytosed bacteria, allows antimicrobial effectors to enter the bacterial periplasmic space and degrade bacterial proteins such as superoxide dismutase sodC which contributes to bacterial virulence. Shows antibacterial activity against a wide spectrum of Gram-positive, Gram-negative and acid-fast bacteria. Reduces the viability of the intracytosolic pathogen L.monocytogenes by inhibiting acidification of the phagocytic vacuole of host cells which restricts bacterial translocation from the vacuole to the cytosol. Required for the antibacterial activity of reactive oxygen species and nitric oxide.

Alternative Names

P-2; MPG1; MPS1; Mpg-1; macrophage expressed gene 1; macrophage gene 1 protein; perforin 2

Gene ID

219972

UniProt ID

Q2M385

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