

Recombinant Mouse MerTK Protein, hFc tagged, Biotinylated

Cat. No. Mertk-04M Lot. No. (See product label)

SPECIFICATION

Product Overview Biotinylated Recombinant Mouse MerTK (C-hFc) is produced by Human Cells. The target gene encoding Glu23 - Phe498 is expressed with a C-hFc tag.

Species Mouse

Source Human Cells

ProteinLength Glu23 - Phe498

Description Tyrosine-protein kinase Mer(MERTK) is a member of the TYRO3/AXL/MER (TAM) receptor kinase family and encodes a transmembrane protein with two fibronectin type-III domains, two Ig-like C2-type (immunoglobulin-like) domains, and one tyrosine kinase domain. Following activation by ligand, interacts with GRB2 or PLCG2 and induces phosphorylation of MAPK1, MAPK2, FAK/PTK2 or RAC1. MERTK signaling plays a role in various processes such as macrophage clearance of apoptotic cells, platelet aggregation, cytoskeleton reorganization and engulfment. Functions in the retinal pigment epithelium (RPE) as a regulator of rod outer segments fragments phagocytosis. Plays also an important role in inhibition of Toll-like receptors (TLRs)-mediated innate immune response by activating STAT1, which selectively induces production of suppressors of cytokine signaling SOCS1 and SOCS3.

Endotoxin Less than 0.1 ng/μg (1 EU/μg)

Storage Buffer Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



Shipping Ambient

Conjugation Biotin

GENE INFORMATION

Gene Name Mertk c-mer proto-oncogene tyrosine kinase [Mus musculus (house mouse)]

Official Symbol Mertk

Synonyms MERTK; Mer

Gene ID 17289

mRNA Refseq NM_008587

Protein Refseq NP_032613

UniProt ID Q12866

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