

Recombinant Mouse Ror1 Protein, hFc-tagged, FITC conjugated

Cat. No. Ror1-192MF Lot. No. (See product label)

SPECIFICATION

Product Overview

FITC conjugated recombinant Mouse Ror1 (Gln30-Glu403) protein was fused to human IgG1 Fc tag at C-terminus and expressed in human 293 cells (HEK293).

Species

Mouse

Source

HEK293

ProteinLength

Gln30-Glu403

Description

Tyrosine-protein kinase transmembrane receptor ROR1 is also known as Neurotrophic tyrosine kinase, receptor-related 1 (NTRKR1), which belongs to the protein kinase superfamily or tyr protein kinase family or ROR subfamily. ROR1 contains 1 FZ (frizzled) domain, 1 Ig-like C2-type (immunoglobulin-like) domain, 1 kringle domain, 1 protein kinase domain. ROR1 is expressed at high levels during early embryonic development. The expression levels drop strongly around day 16 and there are only very low levels in adult tissues. Isoform Short is strongly expressed in fetal and adult CNS and in a variety of human cancers, including those originating from CNS or PNS neuroectoderm. ROR1 could interact with casein kinase 1 epsilon (CK1ε) to activate phosphoinositide 3-kinase-mediated AKT phosphorylation and cAMP-response-element-binding protein (CREB), which was associated with enhanced tumor-cell growth.

Form

Lyophilized

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Molecular Mass	The protein has a calculated MW of 68.4 kDa. The protein migrates as 85-100 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
N-terminal Sequence Analysis	Gln 30
Endotoxin	< 1.0 EU/ µg by the LAL method.
Purity	> 95 % as determined by SDS-PAGE
Characteristic	Disulfide-linked homodimer Labeled with FITC via amines Excitation source: 488 nm spectral line, argon-ion laser Excitation Wavelength: 488 nm Emission Wavelength: 535 nm
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.
Conjugation	FITC

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GENE INFORMATION**Gene Name** Ror1**Official Symbol** Ror1**Synonyms** ROR1; receptor tyrosine kinase-like orphan receptor 1; tyrosine-protein kinase transmembrane receptor ROR1; neurotrophic tyrosine kinase, receptor related 1; neurotrophic tyrosine kinase, receptor-related 1; mRor1; Ntrkr1; 2810404D04Rik**Gene ID** 26563**mRNA Refseq** NM_013845**Protein Refseq** NP_038873**UniProt ID** Q9Z139 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