Recombinant Human RIPK1

Catalog No: #GP11953

Package Size: #GP11953-1 100ug

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Description

Product Name	Recombinant Human RIPK1
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 290-582 amino acids of human RIPK1
Target Name	receptor interacting serine/threonine kinase 1
Other Names	RIP; RIP1; RIP-1
Accession No.	Swissprot:Q13546Gene Accession:BC126254
Uniprot	Q13546
GeneID	8737;
Storage	-20~-80°C, pH 7.6 PBS

Background

Serine-threonine kinase which transduces inflammatory and cell-death signals (programmed necrosis) following death receptors ligation, activation of pathogen recognition receptors (PRRs), and DNA damage. Upon activation of TNFR1 by the TNF-alpha family cytokines, TRADD and TRAF2 are recruited to the receptor. Phosphorylates DAB2IP at 'Ser-728' in a TNF-alpha-dependent manner, and thereby activates the MAP3K5-JNK apoptotic cascade. Ubiquitination by TRAF2 via 'Lys-63'-link chains acts as a critical enhancer of communication with downstream signal transducers in the mitogen-activated protein kinase pathway and the NF-kappa-B pathway, which in turn mediate downstream events including the activation of genes encoding inflammatory molecules. Polyubiquitinated protein binds to IKBKG/NEMO, the regulatory subunit of the IKK complex, a critical event for NF-kappa-B activation. Interaction with other cellular RHIM-containing adapters initiates gene activation and cell death. RIPK1 and RIPK3 association, in particular, forms a necrosis-inducing complex.

References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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