



Full-Length

MAP2K7 (Human) Recombinant Protein

Catalog # P5678 Size 50 ug

Applications



Result of activity analysis

Result of activity analysis

Specification	
Product Description	Human MAP2K7 (NP_660186.1, 1 a.a 419 a.a.) full-length recombinant protein with GST tag expre ssed in <i>Escherichia coli</i> .
Host	Escherichia coli
Theoretical MW (kDa)	74
Form	Liquid
Preparation Method	Escherichia coli expression system
Purification	Glutathione sepharose chromatography
Purity	70 % by SDS-PAGE/CBB staining

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😭 Abnova	Product Information
Activity	The activity was determined by ELISA. The enzyme was incubated with GST-fused substrate protein, and after stopping kinase reaction by EDTA, the reaction solution was transferred into glutathione- c oated plate. Phosphorylation was detected by anti-phospho antibody and HRP-labeled anti-rabbit lg G. Substrate: JNK1. ATP: 25 uM.
Quality Control Testing	Loading 1 ug protein in SDS-PAGE
Storage Buffer	In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.05% Brij35, 1 mM DTT, 10% glycerol)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — MAP2K7	
Entrez GenelD	<u>5609</u>
Protein Accession#	<u>NP_660186.1</u>
Gene Name	MAP2K7
Gene Alias	Jnkk2, MAPKK7, MKK7, PRKMK7
Gene Description	mitogen-activated protein kinase kinase 7
Omim ID	<u>603014</u>
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kina se kinase family. This kinase specifically activates MAPK8/JNK1 and MAPK9/JNK2, and this kin ase itself is phosphorylated and activated by MAP kinase kinase kinases including MAP3K1/ME KK1, MAP3K2/MEKK2, MAP3K3/MEKK5, and MAP4K2/GCK. This kinase is involved in the sign al transduction mediating the cell responses to proinflammatory cytokines, and environmental stre sses. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found, but only one transcript variant has been supported and defined. [provided by RefSeq



Product Information

Other Designations

JNK kinase 2|JNK-activating kinase 2|MAP kinase kinase 7|OTTHUMP00000174397|c-Jun N-ter minal kinase kinase 2|dual specificity mitogen-activated protein kinase kinase 7

Publication Reference

 <u>Receptor-interacting protein kinase 2 (RIPK2) stabilizes c-Myc and is a therapeutic target in prostate cancer</u> <u>metastasis.</u>

Yiwu Yan, Bo Zhou, Chen Qian, Alex Vasquez, Mohini Kamra, Avradip Chatterjee, Yeon-Joo Lee, Xiaopu Yuan, Leigh Ellis, Dolores Di Vizio, Edwin M Posadas, Natasha Kyprianou, Beatrice S Knudsen, Kavita Shah, Ramachandran Murali, Arkadiusz Gertych, Sungyong You, Michael R Freeman, Wei Yang.

Nature Communications 2022 Feb; 13(1):669.

Application: KA, Human, Recombinate proteins

Pathway

- ErbB signaling pathway
- <u>Fc epsilon RI signaling pathway</u>
- GnRH signaling pathway
- MAPK signaling pathway
- <u>Neurotrophin signaling pathway</u>
- <u>T cell receptor signaling pathway</u>
- <u>Toll-like receptor signaling pathway</u>