

## Product datasheet for TP527032

### Map3k5 (NM\_008580) Mouse Recombinant Protein

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Recombinant Proteins   |
| Description:                          | Purified recombinant protein of Mouse mitogen-activated protein kinase kinase kinase 5 (Map3k5), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug |
| Species:                              | Mouse  |
| Expression Host:                      | HEK293T  |
| Expression cDNA Clone or AA Sequence: | >MR227032 protein sequence<br>Red=Cloning site Green=Tags(s)   |

MGTEAGEGITFSVPPFASVGFCTIPEGGSCRRGGGAATAAEGEPSLQPLLVPPPPPPPGSFWNVESAAAP  
GTSCPTTAPGSSATRGRGNSGSGGRRRTTVAYVINEASQGQLVVAESEALQSLREACEAVGATLETLHFG  
KLDGETAVLDRFYNADIAVEMSDAFRQPSLFYHLGVRESFSMANNIILYCDTNSDSLQSLKEIICQKN  
TVCTGNYTFIPYMVTPHNKVYCCDSSFMKGLTELMQPNFELLGPICLPLVDRFVQLLKVAQASSQYFR  
ESILSDIRKARNLYTGKELAAELARIRQRVDNIEVLTADIVINLLLSYRDIQDYDSIVKLVETLEKLPTF  
DLASHHHVKFHAFALNRRNLPGDRAKALDIMIPMVQSEEQVSDMYCLVGRIYKDMFLDSNFTDTSRD  
HGASWFKKAFESEPTLQSGINYAVLLLAAGHQFESSFELRKVGKLSLLGKKNLEKLQSYWEVGGFFLG  
ASVLANDHLRVIQASEKLFRLKTPAWYLSIVETILYKHFVKLTTEQPSAKQELVDFWMDFLVEATKTD  
VTWVRFVLILEPTKIYQPSYLSINNEVEEKTISIWVLPDDKKGIHEWVNFAGASSVRGVSISKFEERCCF  
LYVLHNSDDFQIYFCTELHCKRFFEMVNTITEEKGRGAEDGDCEGDSLEYDYEDENGDRVVLGKGTYGI  
VYAGRDLNSQVRIAIKEIPERSYSQLHEEIALHKHLKHNIVQYLGFSFSENGFIKIFMEQVPGGSL  
ALLRSKWGPLKDNEQTIGFYTKQILEGLKYLHDNQIVHRDIKGDNLINTYSGVLKISDFGTSKRLAGIN  
PCTETFTGLQYMAPEIIDKGPRGYGKAADIWSLGCTIEMATGKPPFYELGEPQAAMFKVGMFKVHPEI  
PESMSAEAKAFILKCFEPDPDKRACANDLLIDEFLKVSSKKKKTQPKLSALSTGSNEYLRISLPPVPLV  
EDTSSSEYGSVSPDELKADPFKARAKSCGEKDGKIRTLFLGIPDENFEDHSAPPSPEEKDSGFFM  
LRKDSERRATLHRILTEDQDKVVRNLMESLAQGAEEPCLKWEHITTLISSLREFVRSTDRKIIATLTKL  
KLELDFDISHGISVQVWVLFQDAVNKVLNRHNKPHWMFALDSIIRKAVQTAITILVPELRPHFSLASE  
SDTADPEDLDVEDEHEELSSNQTVRRPQAITEDAVATSGVSTLSSTVSHDSQNAHRSLNVQLGRMKIETN  
RLEELVRKERELQALLHQAIEEKDQEIRHLKLSQPIDIPGFPVCHLNSPGTTTDESELPGWLRENGAD  
EDTISRFLAEDYTLVDVLYYVTRDDLKCLRLRGGMLCTLWKAIIDFRNKC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

|               |           |
|---------------|-----------|
| Tag:          | C-MYC/DDK |
| Predicted MW: | 154.5 kDa |



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|                       |  |
|-----------------------|--|
| <b>Concentration:</b> | >0.05 µg/µL as determined by microplate BCA method   |
| <b>Purity:</b>        | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| <b>Buffer:</b>        | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol   |
| <b>Note:</b>          | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.   |
| <b>Storage:</b>       | Store at -80°C after receiving vials.  |
| <b>Stability:</b>     | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.  |
| <b>RefSeq:</b>        | <a href="#">NP_032606</a>  |
| <b>Locus ID:</b>      | 26408  |
| <b>UniProt ID:</b>    | <a href="#">O35099</a>   |
| <b>RefSeq Size:</b>   | 5393   |
| <b>Cytogenetics:</b>  | 10 A3  |
| <b>RefSeq ORF:</b>    | 4143   |
| <b>Synonyms:</b>      | 7420452D20Rik; ASK; ASK1; MAPKKK5; Mekk5   |
| <b>Summary:</b>       | <p>Serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. Plays an important role in the cascades of cellular responses evoked by changes in the environment. Mediates signaling for determination of cell fate such as differentiation and survival. Plays a crucial role in the apoptosis signal transduction pathway through mitochondria-dependent caspase activation. MAP3K5/ASK1 is required for the innate immune response, which is essential for host defense against a wide range of pathogens. Mediates signal transduction of various stressors like oxidative stress as well as by receptor-mediated inflammatory signals, such as the tumor necrosis factor (TNF) or lipopolysaccharide (LPS). Once activated, acts as an upstream activator of the MKK/JNK signal transduction cascade and the p38 MAPK signal transduction cascade through the phosphorylation and activation of several MAP kinase kinases like MAP2K4/SEK1, MAP2K3/MKK3, MAP2K6/MKK6 and MAP2K7/MKK7. These MAP2Ks in turn activate p38 MAPKs and c-jun N-terminal kinases (JNKs). Both p38 MAPK and JNKs control the transcription factors activator protein-1 (AP-1). [UniProtKB/Swiss-Prot Function]</p> |