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Product datasheet for TP504373

Nmral1 (NM_026393) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse NmrA-like family domain containing 1 (Nmral1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR204373 protein sequence Red=Cloning site Green=Tags(s) MADRKLVVVFGATGAQGGSVARALLEDGTFRIRVVTRNPEQRAAKELKQQGAEVVRGDQDDAASMELALA GAHATFIVTNYWETCSQDREVQQPHQWDQVFKQGKLLADLAKRLGLHYVVYSGLENIRKLTAGKLAAGHF DGKGEVEEYFRDIGVPMTSVRLPCYFENLLSYFLPQKAADGKSFLLDLPMGDVPMDGMSVSDLGPVVLSL LKKPEEYVGQNIGLSTCRHTAEEYAALLSKHTGKAVHHAKTTPEDYEKLGFQGAQDLANMFRFYTLKPDR NIHLTLRLNPKAQTLDQWLEQHKGDFAQL TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	34.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_080669
Locus ID:	67824

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UniProt ID:	Q8K2T1
RefSeq Size:	1483
Cytogenetics:	16 2.46 cM
RefSeq ORF:	927
Synonyms:	1110025F24Rik; AI256624
Summary:	Redox sensor protein. Undergoes restructuring and subcellular redistribution in response to changes in intracellular NADPH/NADP(+) levels. At low NADPH concentrations the protein is found mainly as a monomer, and binds argininosuccinate synthase (ASS1), the enzyme involved in nitric oxide synthesis. Association with ASS1 impairs its activity and reduces the production of nitric oxide, which subsecuently prevents apoptosis. Under normal NADPH concentrations, the protein is found as a dimer and hides the binding site for ASS1. The homodimer binds one molecule of NADPH. Has higher affinity for NADPH than for NADP(+). Binding to NADPH is necessary to form a stable dimer (By similarity).[UniProtKB/Swiss-Prot Function]