

Product datasheet for TP511176

Arhgef1 (NM_001130152) Mouse Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Purified recombinant protein of Mouse Rho guanine nucleotide exchange factor (GEF) 1 (Arhgef1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species: Mouse
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >MR211176 protein sequence
Red=Cloning site **Green**=Tags(s)

MGEVAGGAAPGPPRSGLVSIIGAEDEDFENELEANSQNSQFQSLEQVKRRPAHLMALLQHVALQFEP
GPLLCLHADMLSSLGPKEAKKAFDFYHSFLEKTAVLRVPVPPSVAFELDRTRPDLISEDVQRRFIQEV
VQSQQAAVSRQLEDFRSKRLMGMPWEQELSLLEPWIGKDRGNYEARERHVAERLLSHLEETQHTISTDE
EKSAAVTAISLYMRHLGVRTKSGDKKSGRNFFRKKVMGNRRSDEPPKTKKGLSSILDPARWNRGEPSAP
DCRHLKVEADAKEKPGPADRKGGGLGMSSRDRTVGTGQDNPGVSLHPLSTDSVDSREPGVDTPQEPGDTPP
QGPTSLEPLAPPESTEDNGETESPEPGDDGEPGRSGLELEPEEPPGWRELVPDPTLLSLPKSQVKRQEV
SELLVTEAAHVRLRVLHDLFYQPMADGGFFPLDELQNIFFSLDELIEVHSLFLDRLMKRRQESGYLIEE
IGDVLLARFDGAEGSWFQKISSRFCSRQSFALQKAKQRKEPRFCFAFVQEAESRPRCRRLLQKDMIPT
MQRLTKYPLLLQSIGQNTTEESTERGKVELAAECCREILHHVNQAVRDMEDLLRLKDYQRRDLTHLRQSS
DPMLSEFKNLDITKKKLVHEGPLTWVTKDKAIEVHVLLDDLLLLLQQRDERLLKSHSRTLTPDPGK
TMLRPVLRLLTSAMTREVATDHKAFYVIFTWDQEAQIYELVAQTSSERKNWCNLITETAGSLKVPAPASRL
KPRPSPSSIREPLLSSSENGTGAEMAPADARTERLLNDLLPFCRPGPEGQLAATALQKVLQKILLST
EEDSGAGPPRDGDGVPGGRAPGPVHTQEIEENLLSLEVAIRQLEEEEFRCRLRPLLSQLGGTLPNLA
PERSAQTGLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-MYC/DDK
Predicted MW: 102.8 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



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| 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_001123624 |
| Locus ID: | 16801 |
| UniProt ID: | Q61210 |
| RefSeq Size: | 3282 |
| Cytogenetics: | 7 A3 |
| RefSeq ORF: | 2763 |
| Synonyms: | Lbcl2; Lsc |
| Summary: | Seems to play a role in the regulation of RhoA GTPase by guanine nucleotide-binding alpha-12 (GNA12) and alpha-13 (GNA13) subunits. Acts as GTPase-activating protein (GAP) for GNA12 and GNA13, and as guanine nucleotide exchange factor (GEF) for RhoA GTPase. Activated G alpha 13/GNA13 stimulates the RhoGEF activity through interaction with the RGS-like domain. This GEF activity is inhibited by binding to activated GNA12. Mediates angiotensin-2-induced RhoA activation. Isoform 3 and isoform 4 do not homooligomerize and show an enhanced RhoGEF activity.[UniProtKB/Swiss-Prot Function] |