

Product datasheet for PH309837

RHOB (NM_004040) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	RHOB MS Standard C13 and N15-labeled recombinant protein (NP_004031)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209837
Predicted MW:	22.1 kDa
Protein Sequence:	>RC209837 protein sequence Red=Cloning site Green=Tags(s) MAAIRKKLVVVGDGACGKTCLLIVFSKDEFPEVYVPTVFENYVADIEVDGKQVELALWDTAGQEDYDRLR PLSYPD TDVILMCF SVDSPD SLENIPEKWVPEVKHF CPNVPIILVANKDLRSDEHVRTELARMKQEPVR TDDGRAMAVRIQAYDYLECSAKTKEGVREVFETATRAALQKRYGSQNGCINCKVL TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_004031
RefSeq Size:	2384
RefSeq ORF:	588
Synonyms:	ARH6; ARHB; MST081; MSTP081; RHOH6
Locus ID:	388
UniProt ID:	P62745



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Cytogenetics: 2p24.1

Summary: Mediates apoptosis in neoplastically transformed cells after DNA damage. Not essential for development but affects cell adhesion and growth factor signaling in transformed cells. Plays a negative role in tumorigenesis as deletion causes tumor formation. Involved in intracellular protein trafficking of a number of proteins. Targets PKN1 to endosomes and is involved in trafficking of the EGF receptor from late endosomes to lysosomes. Also required for stability and nuclear trafficking of AKT1/AKT which promotes endothelial cell survival during vascular development. Serves as a microtubule-dependent signal that is required for the myosin contractile ring formation during cell cycle cytokinesis. Required for genotoxic stress-induced cell death in breast cancer cells.[UniProtKB/Swiss-Prot Function]

Protein Families: Druggable Genome

Product images:



Coomassie blue staining of purified RHOB protein (Cat# [TP309837]). The protein was produced from HEK293T cells transfected with RHOB cDNA clone (Cat# [RC209837]) using MegaTran 2.0 (Cat# [TT210002]).