RHOB Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	RHOB, Lysate
Full Product Name	Human RHOB Protein Lysate
Product Gene Name	RHOB lysate
Product Synonym Names	RHOB; ARH6; ARHB; MST081; MSTP081; RHOH6
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	23.9kDa (213aa), confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)
OMIM	165370
3D Structure	ModBase 3D Structure for P62745
Related Product Information for RHOB lysate	Human RHOB Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of RHOB lysate vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for RHOB purchase	MBS8418572 is a lysate targeting RHOB. Also known as Human RHOB Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RHOB. It may not necessarily be applicable to this product.

NCBI GI #	4757764
NCBI GeneID	388
NCBI Accession #	NP_004031
UniProt Primary Accession #	P62745
UniProt Secondary Accession #	P01121; Q5U0H6; Q7RTN5; Q7RTR9; Q9CUV7; B2R692
UniProt Related Accession #	P62745
GenBank Nucleotide #	NM_004040
NCBI Official Full Name	rho-related GTP-binding protein RhoB
NCBI Official Synonym Full Names	ras homolog family member B
NCBI Official Symbol	RHOB
NCBI Official Synonym Symbols	ARH6; ARHB; RHOH6; MST081; MSTP081
UniProt Protein Name	Rho-related GTP-binding protein RhoB
UniProt Synonym Protein Names	Rho cDNA clone 6

Protein Family	Rho-related GTP-binding protein
UniProt Gene Name	RHOB
UniProt Synonym Gene Names	ARH6; ARHB; h6
UniProt Entry Name	RHOB_HUMAN
NCBI Protein Information	rho-related GTP-binding protein RhoB
UniProt Comments for RHOB	RHOB: a small G protein of the Rho family. Regulates a signal transduction pathway linking plasma membrane receptors to the assembly of focal adhesions and actin stress fibers. Controls the reorganization of actins into podosomes. Serves as a target for the yopT cysteine peptidase from Yersinia pestis, vector of the plague, and Yersinia pseudotuberculosis, which causes gastrointestinal disorders. Protein type: Tumor suppressor; G protein, monomeric; G protein, monomeric, Rho; Motility/polarity/chemotaxis; G protein Chromosomal Location of Human Ortholog: 2p24 Cellular Component: focal adhesion; late endosome membrane; early endosome; plasma membrane; endosome membrane; nucleus; cytosol; cleavage furrow Molecular Function: GTPase activity; protein binding; GDP binding; GTP binding Biological Process: axon guidance; platelet activation; transformed cell apoptosis; metabolic process; apoptosis; positive regulation of apoptosis; cytokinesis; Rho protein signal transduction; negative regulation of cell cycle; intracellular protein transport; positive regulation of angiogenesis; regulation of small GTPase mediated signal transduction; small GTPase mediated signal transduction; endosome to lysosome transport; angiogenesis; blood coagulation; cell adhesion
Research Articles on RHOB	**1.** Our study provides the first evidence that miR-223 can regulate pulmonary artery smooth muscle cells proliferation, migration, and actomyosin reorganization through its novel targets, RhoB and MLC2, resulting in vascular remodeling and the development of pulmonary arterial hypertension.
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