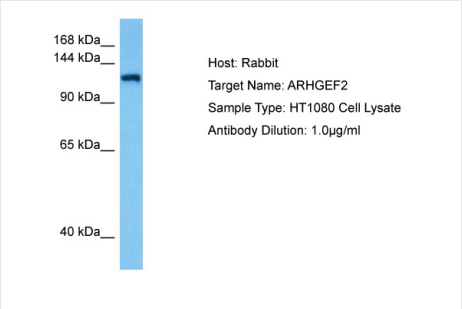
ARHGEF2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ARHGEF2, Polyclonal Antibody
Full Product Name	ARHGEF2 Antibody - C-terminal region
Product Gene Name	anti-ARHGEF2 antibody
Product Synonym Gene Name	GEF; P40; GEFH1; LFP40; GEF-H1
Immunogen Sequence	Synthetic peptide located within the following region: VHRNFEDRER QELGSPEERL QDSSDPDTGS EEEGSSRLSP PHSPRDFTRM
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	ARHGEF2 peptide (MBS3247116) is used for blocking the activity of ARHGEF2 antibody (MBS3222445)
Molecular Weight	108 kDa
OMIM	607560
3D Structure	ModBase 3D Structure for Q92974
Immunogen	The immunogen is a synthetic peptide directed towards the C terminal region of human ARHGEF2
Product Categories/Family for anti-ARHGEF2 antibody	Polyclonal; Signaling Intermediate; Membrane Protein; Signal Transduction
Applications Tested/Suitable for anti-ARHGEF2 antibody	Western Blot (WB)
Related Product Information for anti-ARHGEF2 antibody	Rho GTPases play a fundamental role in numerous cellular processes that are initiated by extracellular stimuli that work through G protein coupled receptors. The encoded protein may form complex with G proteins and stimulate rho-dependent signals. Alternatively spliced transcript variants encoding different isoforms have been identified.
Other Notes	Small volumes of anti-ARHGEF2 antibody 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 ARHGEF2 purchase	MBS3222445 is an antibody targeting ARHGEF2. Also known as ARHGEF2 Antibody - C-terminal region. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-ARHGEF2 antibody
Host: RabbitTarget Name: ARHGEF2Sample Tissue: Human HT1080 Whole Cell lysatesAntibody Dilution: 1ug/ml

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ARHGEF2. It may not necessarily be applicable to this product.

NCBI GI #	253735775
NCBI GeneID	9181
NCBI Accession #	NP_001155855.1
UniProt Primary Accession #	Q92974
UniProt Related Accession #	Q92974
GenBank Nucleotide #	NM_001162383.1
NCBI Official Full Name	rho guanine nucleotide exchange factor 2 isoform 1
NCBI Official Synonym Full Names	Rho/Rac guanine nucleotide exchange factor 2
NCBI Official Symbol	ARHGEF2
NCBI Official Synonym Symbols	GEF; P40; GEFH1; LFP40; GEF-H1; NEDMHM
UniProt Protein Name	Rho guanine nucleotide exchange factor 2
UniProt Synonym Protein Names	Guanine nucleotide exchange factor H1; GEF-H1; Microtubule-regulated Rho-GEF; Proliferating cell nucleolar antigen p40
Protein Family	Rho guanine nucleotide exchange factor
UniProt Gene Name	ARHGEF2
UniProt Synonym Gene Names	KIAA0651; LFP40; GEF-H1
UniProt Entry Name	ARHG2_HUMAN
NCBI Protein Information	rho guanine nucleotide exchange factor 2

UniProt Comments for ARHGEF2	ARHGEF2: a microtubule-associated guanine nucleotide exchange factor for Rac and Rho GTPases. Mediates cross-talk between microtubules and the actin cytoskeleton. Contains a phorbol esters/diacylglycerol binding and PH domain. Protein type: GEFs, Rac/Rho; GEFs; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 1q21-q22 Cellular Component: Golgi apparatus; microtubule; protein complex; tight junction; cytoskeleton; focal adhesion; cell soma; cytoplasmic membrane-bound vesicle; cytoplasm; spindle; dendritic shaft; cytosol; vesicle Molecular Function: Rho guanyl-nucleotide exchange factor activity; protein binding; Rho GTPase binding; zinc ion binding; Rac guanyl-nucleotide exchange factor activity; microtubule binding; Rac GTPase binding; transcription factor binding Biological Process: mitosis; nerve growth factor receptor signaling pathway; positive regulation of apoptosis; negative regulation of microtubule depolymerization; cell morphogenesis; positive regulation of interleukin-6 production; actin filament organization; positive regulation of tumor necrosis factor production; regulation of cell proliferation; negative regulation of neurogenesis; activation of NF-kappaB transcription factor; intracellular protein transport; regulation of small GTPase mediated signal transduction; positive regulation of peptidyl-tyrosine phosphorylation; establishment of mitotic spindle orientation; cell division; small GTPase mediated signal transduction; regulation of Rho protein signal transduction; innate immune response; positive regulation of transcription from RNA polymerase II promoter
Research Articles on ARHGEF2	**1.** Authors identified a regulatory switch controlled by MARK3 that couples microtubules to the actin cytoskeleton to establish epithelial cell polarity through ARHGEF2.
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