ARHG4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ARHG4, Polyclonal Antibody
Full Product Name	ARHG4 Polyclonal Antibody
Product Gene Name	anti-ARHG4 antibody
Product Synonym Names	Rho guanine nucleotide exchange factor 4; APC-stimulated guanine nucleotide exchange factor 1; Asef; Asef1; ARHGEF4; KIAA1112
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Preparation and Storage	Store at-20 degree C for 1 year.
Molecular Weight	75
OMIM	605216
3D Structure	ModBase 3D Structure for Q9NR80
Immunogen	Synthesized peptide derived from human protein. at AA range: 270-350
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ARHG4 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-ARHG4 antibody	WB: 1:500-2000 ELISA: 1:5000-20000
Related Product Information for anti-ARHG4 antibody	MBS8530577 is an antibody targeting ARHG4. Also known as ARHG4 Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-ARHG4 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ARHG4. It may not necessarily be applicable to this product.

NCBI GI #	15011979
NCBI GeneID	50649
NCBI Accession #	NP_056135.2
UniProt Primary Accession #	Q9NR80
UniProt Secondary Accession #	Q9HDC6; Q9UPP0
UniProt Related Accession #	Q9NR80

GenBank Nucleotide #	NM_015320.3
NCBI Official Full Name	rho guanine nucleotide exchange factor 4 isoform a
NCBI Official Synonym Full Names	Rho guanine nucleotide exchange factor 4
NCBI Official Symbol	ARHGEF4
NCBI Official Synonym Symbols	ASEF; GEF4; STM6; ASEF1
UniProt Protein Name	Rho guanine nucleotide exchange factor 4
UniProt Synonym Protein Names	APC-stimulated guanine nucleotide exchange factor 1; Asef; Asef1
UniProt Gene Name	ARHGEF4
UniProt Synonym Gene Names	KIAA1112; Asef; Asef1
NCBI Protein Information	rho guanine nucleotide exchange factor 4
NCBI Summary for ARHG4	Rho GTPases play a fundamental role in numerous cellular processes that are initiated by extracellular stimuli that work through G protein coupled receptors. The protein encoded by this gene may form complex with G proteins and stimulate Rho-dependent signals. Multiple alternatively spliced transcript variants encoding different isoforms have been found, but the full-length nature of some variants has not been determined. [provided by RefSeq, Jun 2013]
UniProt Comments for ARHG4	Acts as guanine nucleotide exchange factor (GEF) for RHOA, RAC1 and CDC42 GTPases. Binding of APC may activate RAC1 GEF activity. The APC-ARHGEF4 complex seems to be involved in cell migration as well as in E-cadherin-mediated cell-cell adhesion. Required for MMP9 up-regulation via the JNK signaling pathway in colorectal tumor cells. Involved in tumor angiogenesis and may play a role in intestinal adenoma formation and tumor progression.
Research Articles on ARHG4	**1.** Our results indicate a possible contribution of CNVs in LEPR, NEGR1, ARHGEF4, and CPXCR1 and the intergenic regions 12q15c, 15q21.1a, and 22q11.21d to the development of obesity, particularly abdominal obesity in Mexican children.
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