RALA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RALA, Polyclonal Antibody
Full Product Name	RALA, CT (RALA, RAL, Ras-related protein Ral-A) (MaxLight 650)
Product Gene Name	anti-RALA antibody
Product Synonym Names	RALA; RAL; Ras-related protein Ral-A
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	23,567 Da
OMIM	179550
3D Structure	ModBase 3D Structure for P11233
Immunogen	RALA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 158-186 amino acids from the C-terminal region of human RALA.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-RALA antibody	Antibodies; GTPase; Rab; Ras; Rho Proteins
Applications Tested/Suitable for anti-RALA antibody	Western Blot (WB), FLISA
Application Notes for anti-RALA antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-RALA antibody	The product of this gene belongs to the small GTPase superfamily, Ras family of proteins. GTP-binding proteins mediate the transmembrane signaling initiated by the occupancy of certain cell surface receptors. This gene encodes a low molecular mass ras-like GTP-binding protein that shares about 50% similarity with other ras proteins.
Product References and Citations for anti-RALA antibody	Nichols, C.D., et al. Curr. Biol. 20(14):1316-1320(2010). Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010): Godin, C.M., et al. Mol. Pharmacol. 77(3):388-395(2010). Lim, K.H., et al. Mol. Cell. Biol. 30(2):508-523(2010). Wang, K., et al. Int J Immunopathol Pharmacol 22(3):735-743(2009).
Other Notes	Small volumes of anti-RALA 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 RALA purchase	MBS6340127 is an antibody targeting RALA. Also known as RALA, CT (RALA, RAL, Ras-related protein Ral-A) (MaxLight 650). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	33946329
NCBI GeneID	5898
NCBI Accession #	NP_005393.2
UniProt Primary Accession #	P11233
UniProt Secondary Accession #	A4D1W3
UniProt Related Accession #	P11233
GenBank Nucleotide #	NM_005402.3
NCBI Official Full Name	ras-related protein Ral-A
NCBI Official Synonym Full Names	v-ral simian leukemia viral oncogene homolog A (ras related)
NCBI Official Symbol	RALA
NCBI Official Synonym Symbols	RAL
UniProt Protein Name	Ras-related protein Ral-A
Protein Family	Ras-related protein
UniProt Gene Name	RALA
UniProt Synonym Gene Names	RAL
UniProt Entry Name	RALA_HUMAN
NCBI Protein Information	ras-related protein Ral-A; RAS-like protein A; Ras family small GTP binding protein RALA; ras related GTP binding protein A

UniProt Comments for RALA	RALA: Multifuntional GTPase involved in a variety of cellular processes including gene expression, cell migration, cell proliferation, oncogenic transformation and membrane trafficking. Accomplishes its multiple functions by interacting with distinct downstream effectors. Acts as a GTP sensor for GTP-dependent exocytosis of dense core vesicles. Plays a role in the early stages of cytokinesis and is required to tether the exocyst to the cytokinetic furrow. The RALA-exocyst complex regulates integrin- dependent membrane raft exocytosis and growth signaling. Key regulator of LPAR1 signaling and competes with ADRBK1 for binding to LPAR1 thus affecting the signaling properties of the receptor. Required for anchorage-independent proliferation of transformed cells. Interacts with RALBP1 via its effector domain. Interacts with EXOC8 and EXOC2. EXOC2 and EXOC8 have overlapping binding sites and compete for RALA binding. Interacts with Clostridium exoenzyme C3. Interacts with RALGPS1. Interacts with LPAR1 and LPAR2. Interacts with ADRBK1 in response to LPAR1 activation. RALA and ADRBK1 mutually inhibit each other's binding to LPAR1. Activated in an LPA-dependent manner by LPAR1 and in an LPA-independent manner by LPAR2. Alternate between an inactive form bound to GDP and an active form bound to GTP. Activated by a guanine nucleotide-exchange factor (GEF) and inactivated by a GTPase- activating protein (GAP). Belongs to the small GTPase superfamily. Ras family. Protein type: Motility/polarity/chemotaxis; G protein, monomeric, Ras; G protein, monomeric; G protein Chromosomal Location of Human Ortholog: 7p15-p13 Cellular Component: cytoplasmic vesicle membrane; cell surface; focal adhesion; endocytic vesicle; plasma membrane; midbody; cleavage furrow Molecular Function: GTPase activity; protein binding; GDP binding; GTP binding; myosin binding; Edg-2 lysophosphatidic acid receptor binding; ubiquitin protein ligase binding; ATPase binding Biological Process: positive regulation of filopodium formation; regulation of exocytosis; exocytosis; lipid raft localization; nerve growth factor receptor signaling pathway; viral reproduction; metabolic process; Ras protein signal transduction; actin cytoskeleton reorganization; cytokinesis; chemotaxis; signal transduction
Research Articles on RALA	**1.** expression of K-Ras and RalB and possibly RalA proteins is critical for maintaining low levels of p53, and down-regulation of these GTPases reactivates p53 by significantly enhancing its stability, contributing to suppression of malignant transformation
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