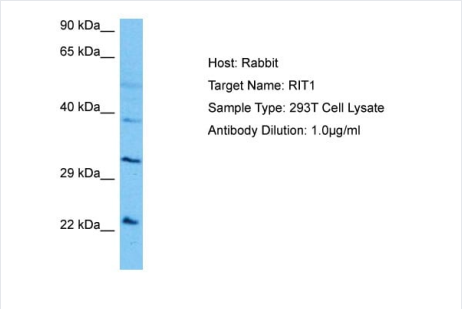
RIT1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RIT1, Polyclonal Antibody
Full Product Name	RIT1 Antibody - middle region
Product Gene Name	anti-RIT1 antibody
Product Synonym Gene Name	NS8; RIT; RIBB; ROC1
Immunogen Sequence	Synthetic peptide located within the following region: GSCCSSPAGL SREYKLVMLG AGGVGKSAMT MQFISHRFPE DHDPTIEDAY
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	RIT1 peptide (MBS3247260) is used for blocking the activity of RIT1 antibody (MBS3222592)
Molecular Weight	24 kDa
OMIM	609591
3D Structure	ModBase 3D Structure for Q92963
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human RIT1
Product Categories/Family for anti-RIT1 antibody	Polyclonal; Cancer; Neurobiology; Signaling Intermediate; Growth Factors & Hormones; Developmental Biology; Apoptosis
Applications Tested/Suitable for anti-RIT1 antibody	Western Blot (WB)
Related Product Information for anti-RIT1 antibody	This gene encodes a member of a subfamily of Ras-related GTPases. The encoded protein is involved in regulating p38 MAPK-dependent signaling cascades related to cellular stress. This protein also cooperates with nerve growth factor to promote neuronal development and regeneration. Alternate splicing results in multiple transcript variants.
Other Notes	Small volumes of anti-RIT1 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 RIT1 purchase	MBS3222592 is an antibody targeting RIT1. Also known as RIT1 Antibody - middle region. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-RIT1 antibody
Host: RabbitTarget Name: RIT1Sample Tissue: Human 293T Whole Cell lysatesAntibody Dilution: 1ug/ml

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RIT1. It may not necessarily be applicable to this product.

NCBI GI #	378744212
NCBI GeneID	6016
NCBI Accession #	NP_001243749.1
UniProt Primary Accession #	Q92963
UniProt Related Accession #	Q92963
GenBank Nucleotide #	NM_001256820.1
NCBI Official Full Name	GTP-binding protein Rit1 isoform 3
NCBI Official Synonym Full Names	Ras like without CAAX 1
NCBI Official Symbol	RIT1
NCBI Official Synonym Symbols	NS8; RIT; RIBB; ROC1
UniProt Protein Name	GTP-binding protein Rit1
UniProt Synonym Protein Names	Ras-like protein expressed in many tissues; Ras-like without CAAX protein 1
Protein Family	GTP-binding protein
UniProt Gene Name	RIT1
UniProt Synonym Gene Names	RIBB; RIT; ROC1
UniProt Entry Name	RIT1_HUMAN
NCBI Protein Information	GTP-binding protein Rit1

UniProt Comments for RIT1	RIT1: a small G protein of the Ras family. Plays a crucial role in coupling NGF stimulation to the activation of both EPHB2 and p38-alpha signaling pathways and in NGF- dependent neuronal differentiation. Stimulation of the NGF and EGF receptor signaling pathways results in rapid and prolonged activation. Interacts with afadin, the C-terminal domain of RalGDS and RLF, but not with RIN1 and PIK3CA. RLF binds exclusively to the active GTP-bound form. Strongly interacts with BRAF, but only weakly with c-Raf. BRAF and c-RAF association is dependent upon the GTP-bound state. Interacts with RGL3. Shows rapid uncatalyzed guanine nucleotide dissociation rates, which are much faster than those of most Ras subfamily members. Protein type: G protein; G protein, monomeric; G protein, monomeric, Ras Chromosomal Location of Human Ortholog: 1q22 Cellular Component: plasma membrane Molecular Function: calmodulin binding; protein binding; GTP binding Biological Process: nerve growth factor receptor signaling pathway; small GTPase mediated signal transduction; Ras protein signal transduction; signal transduction Disease: Noonan Syndrome 8
Research Articles on RIT1	**1.** The functional assessment supported the pathogenicity of the RAF1 and RIT1 variants of unknown significance (VUSs), while the significance of two VUSs in A2ML1 remained unclear.
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