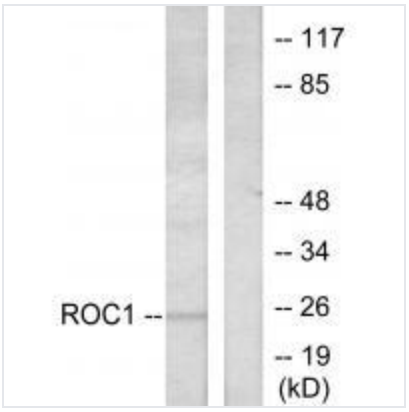
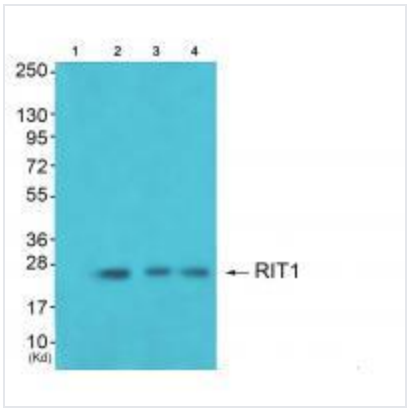
RIT1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RIT1, Polyclonal Antibody
Full Product Name	RIT1 Antibody
Product Gene Name	anti-RIT1 antibody
Product Synonym Names	GTP-binding protein Rit1; Ras-like protein expressed in many tissues; Ras-like without CAAX protein 1; RIBB; RIT
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1.0 mg/ml (lot specific)
Specificity	The antibody detects endogenous levels of total RIT1 protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	27,148 Da
OMIM	609591
3D Structure	ModBase 3D Structure for Q92963
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from human RIT1.
Target Name	RIT1
Product Categories/Family for anti-RIT1 antibody	Total protein Ab
Applications Tested/Suitable for anti-RIT1 antibody	Western Blot (WB)
Application Notes for anti-RIT1 antibody	Western blotting: 1:500~1:3000
Related Product Information for anti-RIT1 antibody	Plays a crucial role in coupling NGF stimulation to the activation of both EPHB2 and MAPK14 signaling pathways and in NGF-dependent neuronal differentiation. Involved in ELK1 transactivation through the Ras-MAPK signaling cascade that mediates a wide variety of cellular functions, including cell proliferation, survival, and differentiation.Manabu Furukawa, Mol. Cell. Biol., Nov 2000; 20: 8185 - 8197. Angus Chen, J. Biol. Chem., May 2000; 275: 15432. Kenneth Wu, Mol. Cell. Biol., Feb 2000; 20: 1382 - 1393. Kenneth Wu, J. Biol. Chem., Jan 2002; 277: 516 - 527.
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	MBS9402178 is an antibody targeting RIT1. Also known as RIT1 Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-RIT1 antibody
Western blot analysis of extracts from Jurkat cells, using RIT1 antibody.



Western Blot (WB) of anti-RIT1 antibody
Western blot analysis of extracts from K562 cells (Lane 2), JK cells (Lane 3) and 293 cells (Lane 4), using RIT1 antiobdy. The lane on the left is treated with synthesized peptide.

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 Secondary Accession #	O00646; O00720; Q5VY89; Q5VY90; B4DQE8
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
NCBI Summary for RIT1	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. [provided by RefSeq, Feb 2012]

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, monomeric, Ras; G protein, monomeric; G protein 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.** four additional cases of Noonan syndrome with mutations in RIT1, were identified.
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