RMI1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RMI1, Polyclonal Antibody
Full Product Name	RMI1, NT (RMI1, C9orf76, RecQ-mediated genome instability protein 1, BLM-associated protein of 75kD, FAAP75) (MaxLight 550)
Product Gene Name	anti-RMI1 antibody
Product Synonym Names	RMI1; C9orf76; RecQ-mediated genome instability protein 1; BLM-associated protein of 75kD; FAAP75
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 MaxLight550.
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: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	70,144 Da
Chromosome Location	Chromosome: 9; NC_000009.11 (86595321..86618989). Location: 9q21.32
OMIM	610404
3D Structure	ModBase 3D Structure for Q9H9A7
Immunogen	RMI1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 104-133 amino acids from the N-terminal region of human RMI1.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-RMI1 antibody	Antibodies; DNA Replication; Repair
Applications Tested/Suitable for anti-RMI1 antibody	Western Blot (WB), FLISA
Application Notes for anti-RMI1 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-RMI1 antibody	RMI1 is a component of protein complexes that limit DNA crossover formation via the dissolution of double Holliday junctions (Raynard et al., 2006 [PubMed 16595695]).[supplied by OMIM].
Product References and Citations for anti-RMI1 antibody	Yang, J., et al. J. Biol. Chem. 285(28):21426-21436(2010). Frank, B., et al. Carcinogenesis 31(3):442-445(2010). Barber, M.J., et al. PLoS ONE 5 (3), E9763 (2010): Luedeke, M., et al. Cancer Epidemiol. Biomarkers Prev. 18(11):3030-3035(2009). Broberg, K., et al. BMC Cancer 9, 140 (2009).

Other Notes	Small volumes of anti-RMI1 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 RMI1 purchase	MBS6342342 is an antibody targeting RMI1. Also known as RMI1, NT (RMI1, C9orf76, RecQ-mediated genome instability protein 1, BLM-associated protein of 75kD, FAAP75) (MaxLight 550). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RMI1. It may not necessarily be applicable to this product.

NCBI GI #	153791761
NCBI GeneID	80010
NCBI Accession #	NP_079221.2
UniProt Primary Accession #	Q9H9A7
UniProt Secondary Accession #	Q05BX1; Q05CW3; Q5SQG8; Q5SQG9; Q6P1Q4; Q6PI89; Q7Z6L6
UniProt Related Accession #	Q9H9A7
GenBank Nucleotide #	NM_024945.2
NCBI Official Full Name	recQ-mediated genome instability protein 1
NCBI Official Synonym Full Names	RecQ mediated genome instability 1
NCBI Official Symbol	RMI1
NCBI Official Synonym Symbols	BLAP75; FAAP75; C9orf76; RP11-346I8.1
UniProt Protein Name	RecQ-mediated genome instability protein 1
UniProt Synonym Protein Names	BLM-associated protein of 75 kDa; BLAP75; FAAP75
Protein Family	RecQ-mediated genome instability protein
UniProt Gene Name	RMI1
UniProt Synonym Gene Names	C9orf76; BLAP75
UniProt Entry Name	RMI1_HUMAN
NCBI Protein Information	recQ-mediated genome instability protein 1; BLM-associated protein 75 kDa; BLM-associated polypeptide, 75 kDa; RMI1, RecQ mediated genome instability 1, homolog; homolog of yeast RecQ-mediated genome instability 1 (RMI1)
NCBI Summary for RMI1	RMI1 is a component of protein complexes that limit DNA crossover formation via the dissolution of double Holliday junctions (Raynard et al., 2006 [PubMed 16595695]).[supplied by OMIM, Mar 2008]
UniProt Comments for RMI1	RMI1: Essential component of the RMI complex, a complex that plays an important role in the processing of homologous recombination intermediates to limit DNA crossover formation in cells. Promotes TOP3A binding to double Holliday junctions (DHJ) and hence stimulates TOP3A-mediated dissolution. Required for BLM phosphorylation during mitosis. Within the BLM complex, required for BLM and TOP3A stability. Belongs to the RMI1 family. Protein type: DNA repair, damage Chromosomal Location of Human Ortholog: 9q21.32 Cellular Component: nucleoplasm; nucleus Molecular Function: protein binding Biological Process: multicellular organism growth; response to glucose stimulus; DNA replication; glucose homeostasis; reduction of food intake in response to dietary excess

Research Articles on RMI1	**1.** RMI1 is required to promote normal replication fork progression
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