RANBP1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RANBP1, Polyclonal Antibody
Full Product Name	RANBP1 Polyclonal Antibody
Product Gene Name	anti-RANBP1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	23kDa
OMIM	601180
3D Structure	ModBase 3D Structure for P43487
Immunogen	A synthetic peptide of human RANBP1 (NP_002873.1).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-RANBP1 antibody	Western Blot (WB)
Application Notes for anti-RANBP1 antibody	WB: 1:500-1:2000
Related Product Information for anti-RANBP1 antibody	This gene encodes a protein that forms a complex with Ras-related nuclear protein (Ran) and metabolizes guanoside triphosphate (GTP). This complex participates in the regulation of the cell cycle by controlling transport of proteins and nucleic acids into the nucleus. There are multiple pseudogenes for this gene on chromosomes 9, 12, 17, and X. Alternative splicing results in multiple transcript variants.
Other Notes	Small volumes of anti-RANBP1 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 RANBP1 purchase	MBS8571080 is an antibody targeting RANBP1. Also known as RANBP1 Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RANBP1. It may not necessarily be applicable to this product.

NCBI GI #	520975477
NCBI GeneID	5902
NCBI Accession #	NP_001265568.1
UniProt Primary Accession #	P43487

UniProt Related Accession #	P43487
GenBank Nucleotide #	NP_001265568.1
NCBI Official Full Name	ran-specific GTPase-activating protein isoform 1
NCBI Official Synonym Full Names	RAN binding protein 1
NCBI Official Symbol	RANBP1
NCBI Official Synonym Symbols	HTF9A
UniProt Protein Name	Ran-specific GTPase-activating protein
UniProt Synonym Protein Names	Ran-binding protein 1; RanBP1
Protein Family	Ran-specific GTPase-activating protein
UniProt Gene Name	RANBP1
UniProt Synonym Gene Names	RanBP1
UniProt Entry Name	RANG_HUMAN
NCBI Protein Information	ran-specific GTPase-activating protein
UniProt Comments for RANBP1	RANBP1: a Ran-binding protein that functions in nuclear trafficking, mitosis, chromosomal segregation, and ciliogenesis. Controls both nuclear import and export. Contains a Ran binding domain and a C-terminal nuclear export signal. Following export from the nucleus, forms a complex with RanGTP and XPO1/cargo, leading to dissociation of cargo from XPO1. Stimulates RanGAP1 association with RanGTP, facilitating RanGTP hydrolysis to RanGDP. Stabilizes and regulates the formation of a RanGDP-importin/NLS receptor-RanBP1 complex during nuclear import. Controls RanGTP distribution along mitotic microtubules, which localizes critical factors, such as cyclin B1 and DLG7, to mitotic microtubles and regulates chromosome segregation. Knock down or overexpression experiments affect cellular ciliogenesis by regulating the local RanGTP concentation at the base of cilia.Belongs to the RANBP1 family. Protein type: G protein regulator, misc.; Microtubule-binding; Cell cycle regulation Chromosomal Location of Human Ortholog: 22q11.21 Cellular Component: cytoplasm; nuclear envelope; nucleus Molecular Function: GDP-dissociation inhibitor activity; Ran GTPase binding; GTPase activator activity Biological Process: intracellular transport; viral reproduction; regulation of catalytic activity; signal transduction; positive regulation of GTPase activity
Research Articles on RANBP1	**1.** Sgk1-dependent regulation of RANBP1 has functional consequences on both mitotic microtubule activity and taxol sensitivity of cancer cells.
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