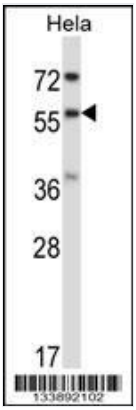
RANGAP1 Antibody – Rabbit Polyclonal

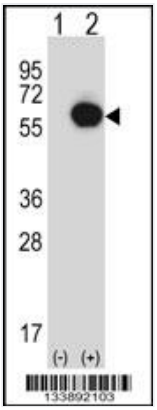
PRODUCT OVERVIEW

Product Name	RANGAP1, Polyclonal Antibody
Full Product Name	RANGAP1, NT (RANGAP1, KIAA1835, SD, Ran GTPase-activating protein 1) (FITC)
Product Gene Name	anti-RANGAP1 antibody
Product Synonym Names	RANGAP1; KIAA1835; SD; Ran GTPase-activating protein 1
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 Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Chromosome Location	**chromosome:** 22; **Location:**
OMIM	602362. gene.
3D Structure	ModBase 3D Structure for P46060
Immunogen	RANGAP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 19-49 amino acids from the N-terminal region of human RANGAP1.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-RANGAP1 antibody	Antibodies; GTPase; Rab; Ras; Rho Proteins
Applications Tested/Suitable for anti-RANGAP1 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-RANGAP1 antibody	IHC: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-RANGAP1 antibody	RanGAP1, is a homodimeric 65-kD polypeptide that specifically induces the GTPase activity of RAN, but not of RAS by over 1,000-fold. RanGAP1 is the immediate antagonist of RCC1, a regulator molecule that keeps RAN in the active, GTP-bound state. The RANGAP1 gene encodes a 587-amino acid polypeptide. The sequence is unrelated to that of GTPase activators for other RAS-related proteins, but is 88% identical to Fug1, the murine homolog of yeast Rna1p. RanGAP1 and RCC1 control RAN-dependent transport between the nucleus and cytoplasm. RanGAP1 is a key regulator of the RAN GTP/GDP cycle.

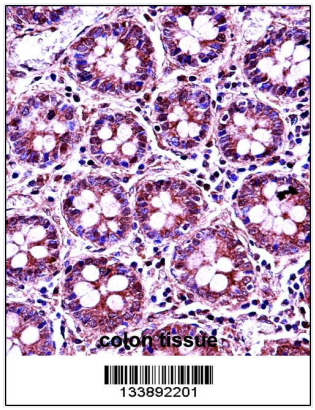
Product References and Citations for anti-RANGAP1 antibody	Zhang, J., et al. Biochem. Biophys. Res. Commun. 375(2):252-255(2008). Zuccolo, M., et al. EMBO J. 26(7):1853-1864(2007). Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007): Vertegaal, A.C., et al. Mol. Cell Proteomics 5(12):2298-2310(2006). Vertegaal, A.C., et al. Mol. Cell Proteomics 5(12):2298-2310(2006).
Other Notes	Small volumes of anti-RANGAP1 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 RANGAP1 purchase	MBS6340232 is an antibody targeting RANGAP1. Also known as RANGAP1, NT (RANGAP1, KIAA1835, SD, Ran GTPase-activating protein 1) (FITC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-RANGAP1 antibody
RANGAP1 Antibody (N-term) western blot analysis in Hela cell line lysates (35ug/lane).This demonstrates the RANGAP1 antibody detected the RANGAP1 protein (arrow).



Western Blot (WB) of anti-RANGAP1 antibody
Western blot analysis of RANGAP1 (arrow) using rabbit polyclonal RANGAP1 Antibody (N-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the RANGAP1 gene.



Immunohistochemistry (IHC) of anti-RANGAP1 antibody
RANGAP1 Antibody (N-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human colon tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of RANGAP1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RANGAP1. It may not necessarily be applicable to this product.

NCBI GI #	4506411
NCBI GeneID	5905
NCBI Accession #	NP_002874.1
UniProt Primary Accession #	P46060
UniProt Secondary Accession #	Q96JJ2
NCBI Official Full Name	ran GTPase-activating protein 1 [Homo sapiens]

NCBI Official Synonym Full Names	Ran GTPase activating protein 1
NCBI Official Symbol	RANGAP1
NCBI Official Synonym Symbols	SD; Fug1; KIAA1835; MGC20266; RANGAP1
UniProt Protein Name	Ran GTPase-activating protein 1
Protein Family	RAN GTPase-activating protein
UniProt Gene Name	RANGAP1
UniProt Synonym Gene Names	KIAA1835; SD
UniProt Entry Name	RAGP1_HUMAN
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/rangap1/6340232