

RANGAP1 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1960a**Specification****RANGAP1 Antibody - Product Information**

Application	WB, E
Primary Accession	P46060
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	63.5kDa KDa

Description

This gene encodes a protein that associates with the nuclear pore complex and participates in the regulation of nuclear transport. The encoded protein interacts with Ras-related nuclear protein 1 (RAN) and regulates guanosine triphosphate (GTP)-binding and exchange. Alternative splicing results in multiple transcript variants.

Immunogen

Purified recombinant fragment of human RANGAP1 (AA: 359-587) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide.

RANGAP1 Antibody - Additional Information

Gene ID 5905

Other Names

Ran GTPase-activating protein 1, RanGAP1, RANGAP1, KIAA1835, SD

Dilution

WB~~1/500 - 1/2000

E~~1/10000

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

RANGAP1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

RANGAP1 Antibody - Protein Information

Name RANGAP1

Synonyms KIAA1835, SD

Function

GTPase activator for RAN (PubMed:16428860, PubMed:8146159, PubMed:8896452). Converts cytoplasmic GTP-bound RAN to GDP-bound RAN, which is essential for RAN-mediated nuclear import and export (PubMed:27160050, PubMed:8896452). Mediates dissociation of cargo from nuclear export complexes containing XPO1, RAN and RANBP2 after nuclear export (PubMed:27160050).

Cellular Location

Cytoplasm. Nucleus, nucleoplasm. Nucleus envelope. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, spindle. Note=Cytoplasmic during interphase Detected at the nuclear envelope during interphase (PubMed:11854305, PubMed:15037602). Targeted to the nuclear pores after sumoylation (PubMed:11854305). During mitosis, associates with mitotic spindles, but is essentially not detected at the spindle poles (PubMed:11854305, PubMed:15037602). Association with kinetochores appears soon after nuclear envelope breakdown and persists until late anaphase (PubMed:11854305). Mitotic location also requires sumoylation (PubMed:11854305).

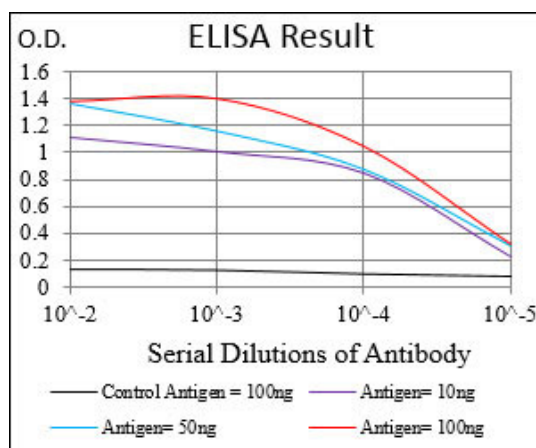
Tissue Location

Highly expressed in brain, thymus and testis.

RANGAP1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)



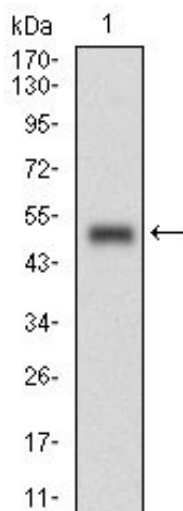


Figure 1: Western blot analysis using RANGAP1 mAb against human RANGAP1 (AA: 359-587) recombinant protein. (Expected MW is 51.4 kDa)

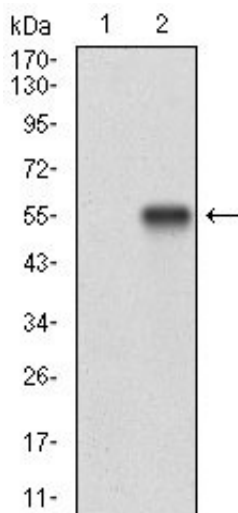


Figure 2: Western blot analysis using RANGAP1 mAb against HEK293 (1) and RANGAP1 (AA: 359-587)-hlgGFc transfected HEK293 (2) cell lysate.

RANGAP1 Antibody - Background

PIWIL4 belongs to the Argonaute family of proteins, which function in development and maintenance of germline stem cells ; ;

RANGAP1 Antibody - References

1. J Cell Biol. 2012 Feb 20;196(4):435-50.
2. Cancer Res. 2011 Jul 15;71(14):4968-76.