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Product datasheet for CF501265

RANGAP1 Mouse Monoclonal Antibody [Clone ID: OTI1B4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1B4
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:1000~2000, IHC 1:50, IF 1:100, FLOW 1:100
Reactivity:	Human, Dog, Rat, Mouse
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human RANGAP1 (NP_002874) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	63.4 kDa
Gene Name:	Ran GTPase activating protein 1
Database Link:	NP_002874 Entrez Gene 19387 MouseEntrez Gene 362965 RatEntrez Gene 481234 DogEntrez Gene 5905 Human P46060

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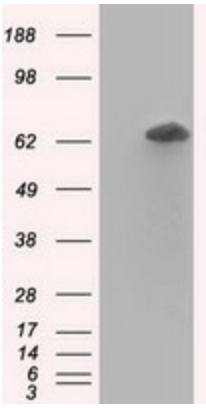
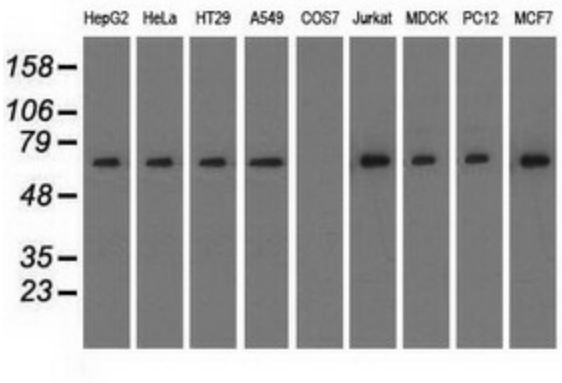
Background: RanGAP1, is a homodimeric 65-kD polypeptide that specifically induces the GTPase activity of RAN, but not of RAS by over 1,000-fold. RanGAP1 is the immediate antagonist of RCC1, a regulator molecule that keeps RAN in the active, GTP-bound state. The RANGAP1 gene encodes a 587-amino acid polypeptide. 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. [provided by RefSeq]

Synonyms: Fug1; RANGAP; SD

Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY RANGAP1 (Cat# [RC204223], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RANGAP1(Cat# [TA501265]). Positive lysates [LY401016] (100ug) and [LC401016] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-RANGAP1 monoclonal antibody.

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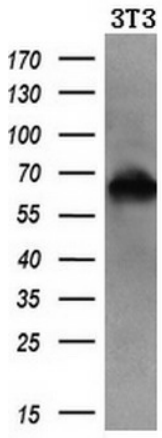
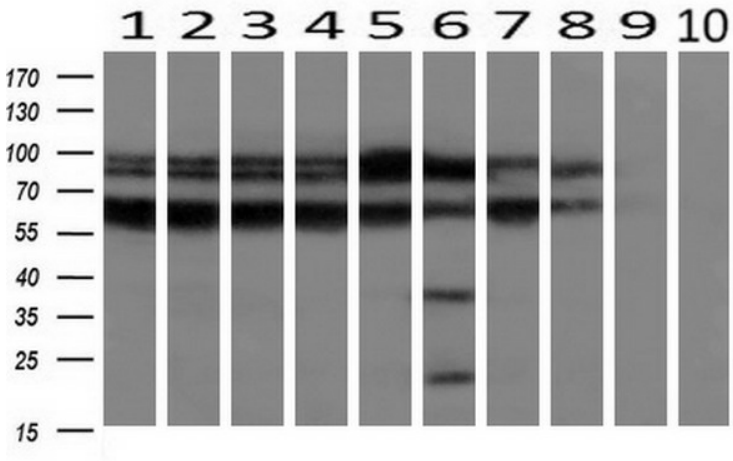
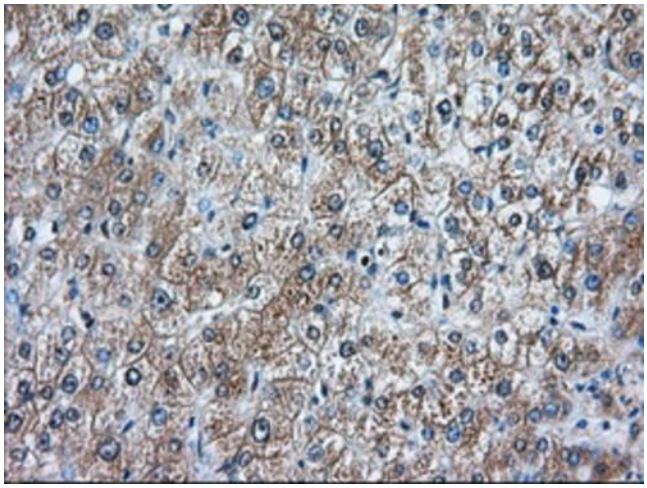


Western blot analysis of extracts (10ug) from a mouse cell line by using anti-RANGAP1 monoclonal antibody (1:200).



Western blot analysis of extracts (10ug) from 10 Human tissue by using anti-RANGAP1 monoclonal antibody at 1:200 (1: Testis; 2: Omentum; 3: Uterus; 4: Breast; 5: Brain; 6: Liver; 7: Ovary; 8: Thyroid gland; 9: colon;10: spleen).



Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-RANGAP1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501265], Dilution 1:50)

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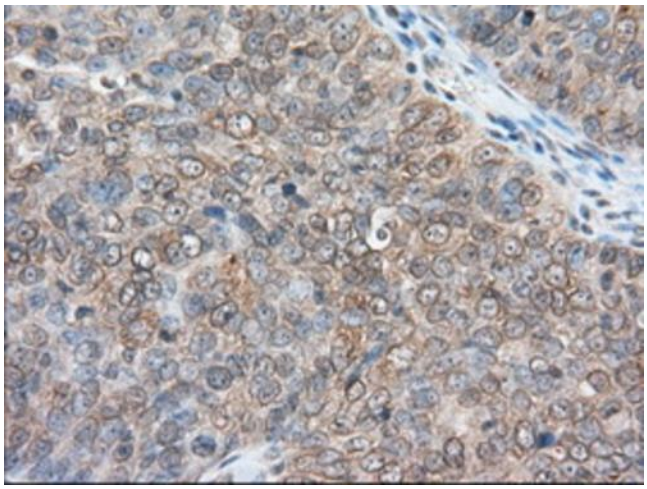
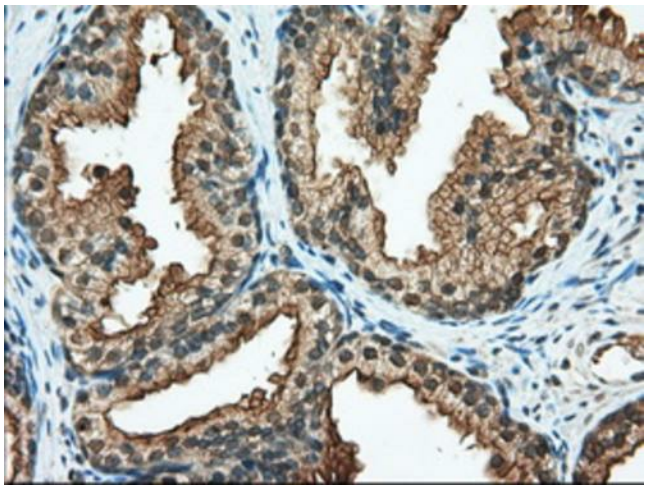
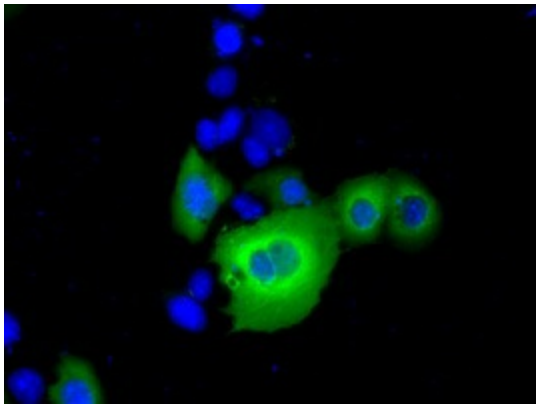


Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-RANGAP1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501265], Dilution 1:50)



Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-RANGAP1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501265], Dilution 1:50)



Anti-RANGAP1 mouse monoclonal antibody ([TA501265]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY RANGAP1 ([RC204223]).

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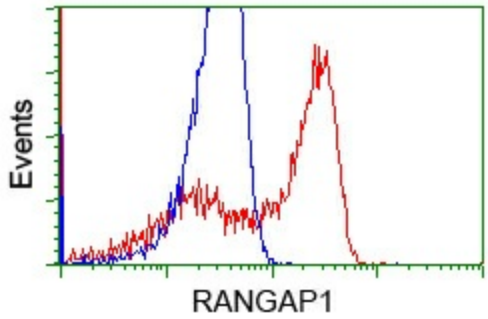
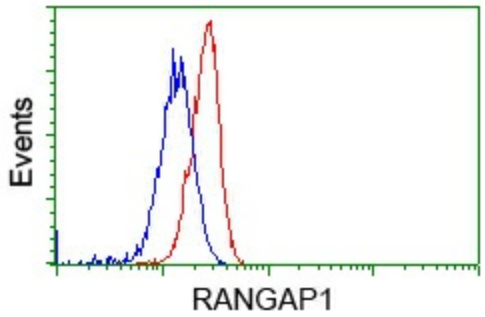
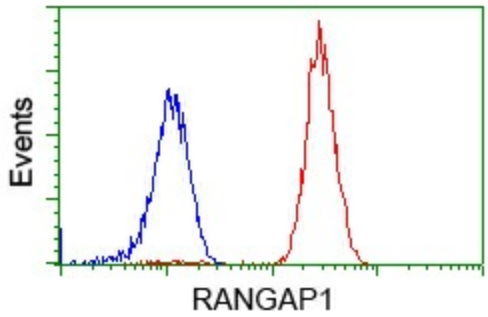


HEK293T cells transfected with either [RC204223] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-RANGAP1 antibody ([TA501265]), and then analyzed by flow cytometry.



Flow cytometric Analysis of Hela cells, using anti-RANGAP1 antibody ([TA501265]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).



Flow cytometric Analysis of Jurkat cells, using anti-RANGAP1 antibody ([TA501265]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).

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