

## Product datasheet for TA501265

### RANGAP1 Mouse Monoclonal Antibody [Clone ID: OTI1B4]

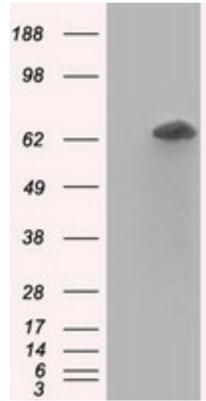
#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1B4
Applications:	FC, IF, IHC, WB
Recommend Dilution:	WB 1:1000~2000, IHC 1:50, IF 1:100, FLOW 1:100
Reactivity:	Human, Rat, Dog
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human RANGAP1 (NP_002874) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.81 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Predicted Protein Size:	63.4 kDa
Gene Name:	Ran GTPase activating protein 1
Database Link:	<a href="#">NP_002874 Entrez Gene</a> <a href="#">362965 RatEntrez Gene</a> <a href="#">481234 DogEntrez Gene</a> <a href="#">5905 Human</a>
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

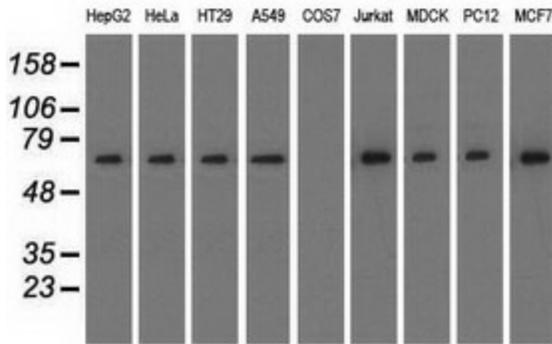


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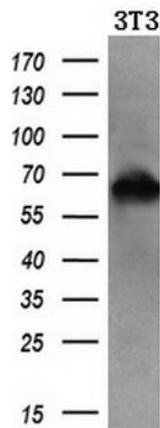
Product images:



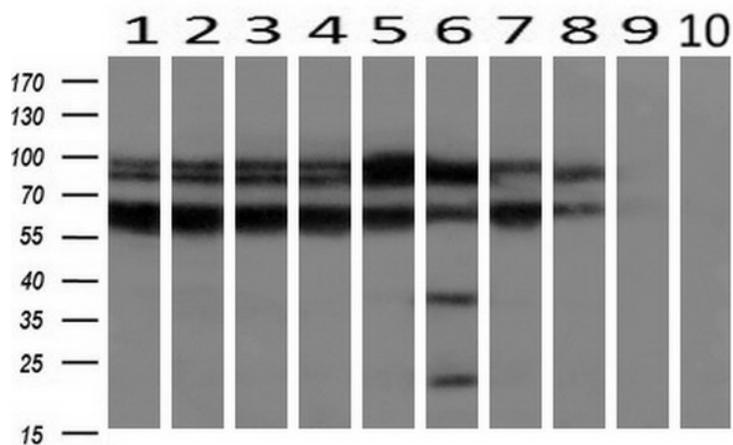
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY RANGAP1 ([RC204223], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RANGAP1. Positive lysates [LY401016] (100ug) and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



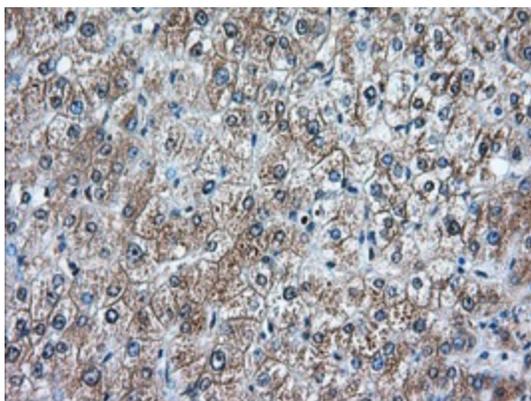
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-RANGAP1 monoclonal antibody.



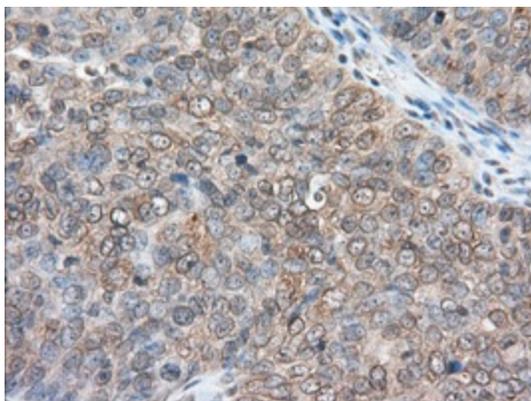
Western blot analysis of extracts (10ug) from a mouse cell line by using anti-RANGAP1 monoclonal antibody (1:200).



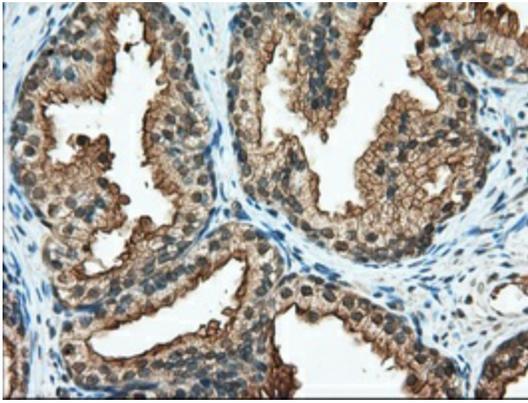
Western blot analysis of extracts (10ug) from 10 Human tissue by using anti-RANGAP1 monoclonal antibody at 1:200 (1: Testis; 2: Omentum; 3: Uterus; 4: Breast; 5: Brain; 6: Liver; 7: Ovary; 8: Thyroid gland; 9: colon; 10: spleen).



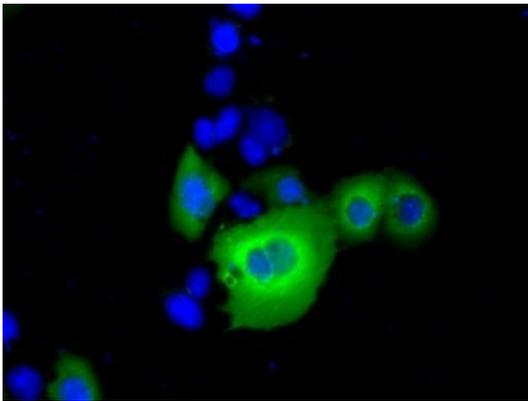
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-RANGAP1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA501265, Dilution 1:50)



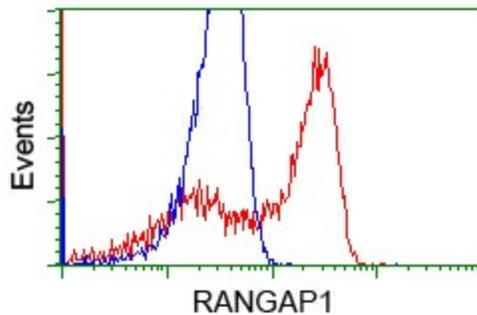
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-RANGAP1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA501265, Dilution 1:50)



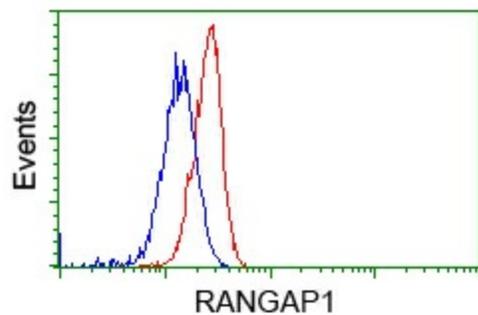
Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-RANGAP1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA501265, Dilution 1:50)



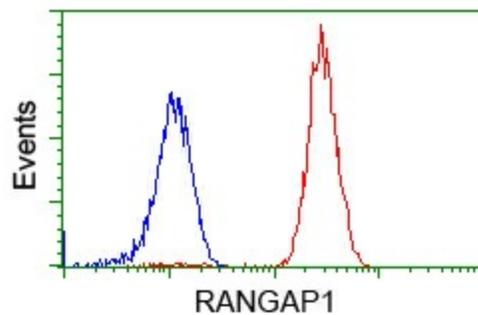
Anti-RANGAP1 mouse monoclonal antibody (TA501265) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY RANGAP1 ([RC204223]).



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).