

Product datasheet for **CF501055**

RIC8 (RIC8A) Mouse Monoclonal Antibody [Clone ID: OTI3G3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3G3
Applications:	IF, IHC, WB
Recommended Dilution:	WB 1:1000, IHC 1:50, IF 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human RIC8A (NP_068751) 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:	59.6 kDa
Gene Name:	RIC8 guanine nucleotide exchange factor A
Database Link:	NP_068751 Entrez Gene 101489 MouseEntrez Gene 293614 RatEntrez Gene 60626 Human Q9NPQ8



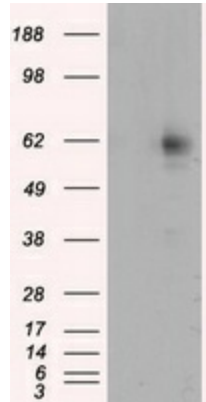
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Background:

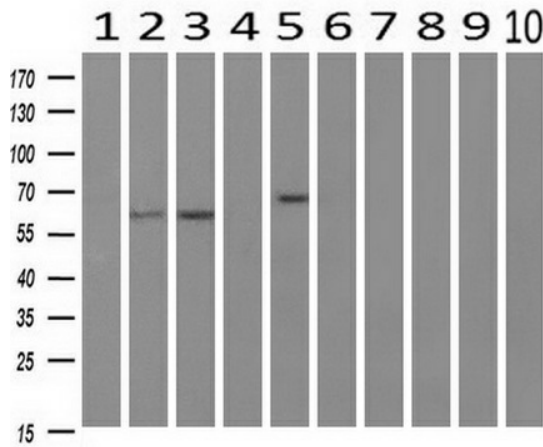
Guanine nucleotide exchange factor (GEF), which can activate some, but not all, G-alpha proteins. Able to activate GNAI1, GNAO1 and GNAQ, but not GNAS by exchanging bound GDP for free GTP. Involved in regulation of microtubule pulling forces during mitotic movement of chromosomes by stimulating G(i)-alpha protein, possibly leading to release G(i)-alpha-GTP and NuMA proteins from the NuMA-GPSM2-G(i)-alpha-GDP complex (By similarity). Also acts as an activator for G(q)-alpha (GNAQ) protein by enhancing the G(q)-coupled receptor-mediated ERK activation

Synonyms:

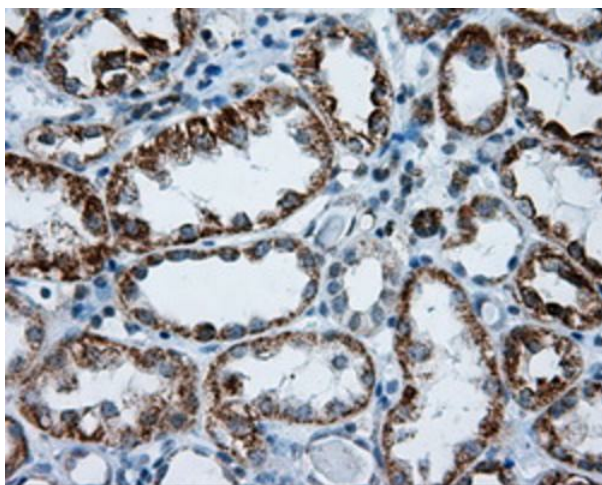
RIC8

Product images:


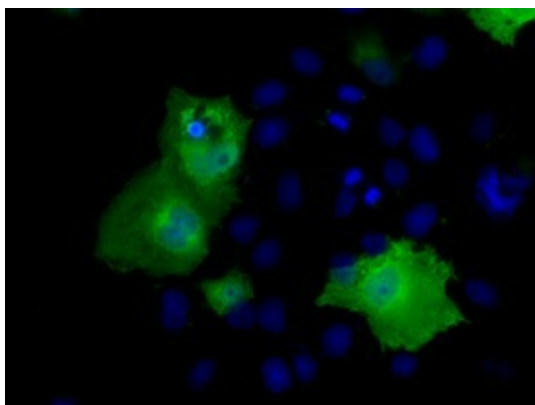
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY RIC8A (Cat# [RC211359], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RIC8A(Cat# [TA501055]). Positive lysates [LY402886] (100ug) and [LC402886] (20ug) can be purchased separately from OriGene.



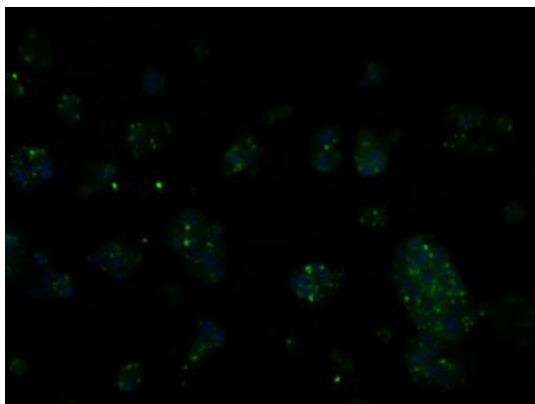
Western blot analysis of extracts (10ug) from 10 Human tissue by using anti-RIC8A monoclonal antibody at 1:200 (1: Testis; 2: Omentum; 3: Uterus; 4: Breast; 5: Brain; 6: Liver; 7: Ovary; 8: Thyroid gland; 9: colon; 10: spleen).



Immunohistochemical staining of paraffin-embedded Kidney tissue within the normal limits using anti-RIC8A mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Anti-RIC8A mouse monoclonal antibody ([TA501055]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY RIC8A ([RC211359]).



Immunofluorescent staining of HepG2 cells using anti-RIC8A mouse monoclonal antibody ([TA501055]).