Anti-RagC/RRAGC antibody, rabbit polyclonal

Product code	71-023
Size	100 µg
Storage	-20℃
Concentration	1.0 mg/ml
Buffer	PBS- with 50% glycerol
Purity	Purified IgG fraction with protein A from rabbit antiserum.
Immunogen	Purified full-length human Rag C protein fused with GST
Isotype	Rabbit IgG
Reactivity	Human, mouse and hamster. Not tested in other species.
Special notes	N/A
Application	1. Western blotting (1,000~ 2,000 folds dilution) 2. Immunofluorescence staining (1/100~1/500)
Background	Guanine nucleotide-binding protein forming heterodimeric Rag complexes required for the amino acid-induced relocalization of mTORC1 to the lysosomes and its subsequent activation by the GTPase RHEB. This is a crucial step in the activation of the TOR signaling cascade by amino acids Molecular mass: 44,224 with 399 amino acids. Rag C forms a functional complex with Rag A and Rag B. Cellular localization: Predominantly cytoplasmic. May shuttle between the cytoplasm and nucleus, depending on the bound nucleotide state of associated RagA. Post-translational modification: Acetylation and phosphorylation
Data Link	UniProtKB/Swiss-Prot: Q9HB90 RRAGC_Human

Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.

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Data Images: 71-023 Anti-RagC/RRAGC antibody, rabbit polyclonal

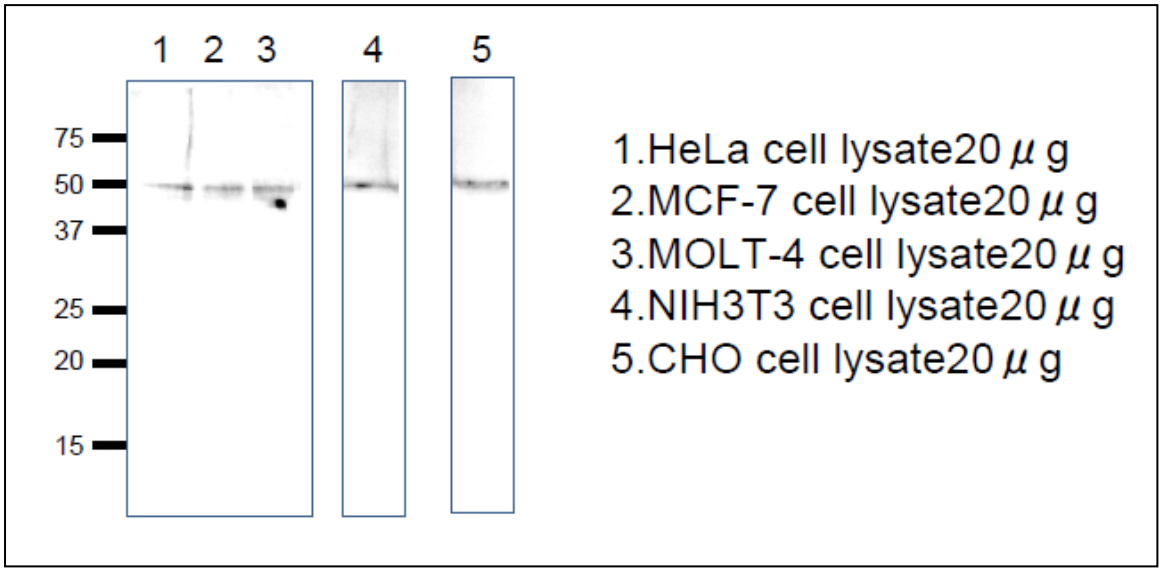

Fig.1 Western blot analysis of Rag C protein in the cell lysates.

Anti-RagC antiserum was used at 1/1,000 dilution. Second antibody, anti-rabbit IgG conjugated with HRP, was used at 1/10,000 dilution.

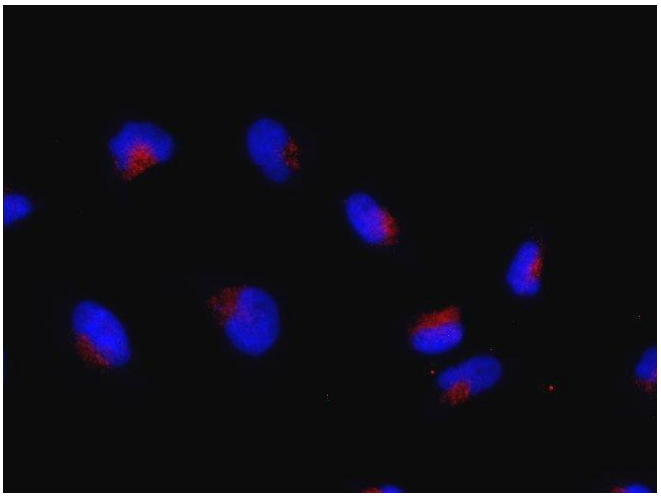

Fig.2 Immunofluorescence stainig of Rag C protein in HeLa cells.

HeLa cells were fixed with 4% paraformaldehyde and permeabilized with 0.5% TritonX 100 and reacted with anti-RagC antibody at 1/100 dilution As the 2nd antibody, anti-rabbit IgG antibody conjugated with Alexa Fluor 647 (red) was used at 1/1,000 dilution. DNA was stained with DAPI (blue).

Reference : This product was described and used in the following reference .

1. Sekiguchi T., et al. (2004) A novel human nucleolar protein, Nop132, binds to the G proteins, RRAG A/C/D. J Biol Chem. 279: 8343-50. PubMed 14660641 WB

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