



POLYCLONAL ANTIBODY

For research use only. Not for clinical diagnosis.

Catalog No. BAM-71-020-EX**Anti- RagA****BACKGROUND**

RagA (313 aa, 36.6 kDa) is the human homologue of Gtr1 identified in yeast and classified as the Ras-like small G protein family. In cytoplasm, GTP-bound RagA usually forms a heterodimer with RagD, interacts with Nop132 to be transported to the nucleus. GTP of RagA is hydrolyzed to GDP by RCC, guanine nucleotide exchange factor for RanGTPase bound to chromatin. RagA-RCC signal pathway has a crucial role in cell growth and differentiation. RagA is also well known to be involved in mTOR signaling via binding with raptor, a component of mTORC1 complex, in an amino acid sensitive manner.

Product type	Primary antibodies
Antigen	Purified full-length human RagA protein fused with GST
Host	Rabbit
Clone	-
Isotype	-
Source	Serum
Form	Anti-Rag A rabbit serum added with 0.05% sodium azide.
Concentration	-
Volume	100 µl
Label	-
Specificity	Reacts with mammalian and Xenopus Rag A proteins.
Cross reactivity	Mammalian, Xenopus
Storage	Shipped at 4°C. Upon arrival aliquot and store at -20°C.
Other	Data Link UniProtKB/Swiss-Prot : Q7L523

Application notes	WB Other applications have not been tested. Recommended dilutions Western blotting (dilution: 1/1,000 – 1/2,000)
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Optimal dilutions/concentrations should be determined by the end user.

References	1) Sekiguchi T <i>et al</i> " A novel human nucleolar protein Nop132, binds to the G proteins, RAG A/C/D" <i>J. Biol. Chem.</i> 279,: 8343-8350 (2004) PMID: 14660641 2) Yasemin S <i>et al</i> "The Rag GTPases bind raptor and mediate amino acid signaling to mTORC1" <i>Science.</i> 320(5882): 1496-1501 (2008) PMID: 18497260
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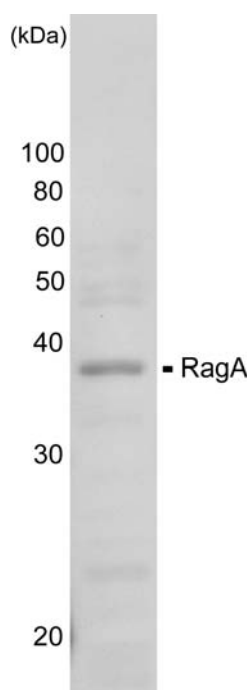


Fig.1 Western blot analysis of RagA protein in the whole cell extracts (HeLa cell lysate, 10mg). Anti-RagA antiserum was used at 1,000 dilution.

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COSMO BIO Co., LTD.

Inspiration for Life Science

TOYO 2CHOME, KOTO-KU, TOKYO, 135-0016, JAPAN

URL: <http://www.cosmobio.co.jp>

e-mail: export@cosmobio.co.jp

[Outside Japan] Phone : +81-3-5632-9617

[国内連絡先] Phone : +81-3-5632-9610

FAX : +81-3-5632-9618

FAX : +81-3-5632-9619