

Rab 40C (H-8): sc-514826

BACKGROUND

Rab 40C is a 281 amino acid protein that belongs to the small GTPase superfamily and the Rab family. Rab 40C contains a SOCS box domain that mediates the interaction with the Elongin BC complex, an adapter module in different E3 ubiquitin ligase complexes. Rab 40C is a probable substrate-recognition component of a SCF-like ECS (Elongin-Cullin-SOCS-box protein) E3 ubiquitin ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Involved in protein modification and ubiquitination, Rab 40C interacts with CUL-5, Rbx2, Elongin C and Elongin B. The Rab 40C gene is conserved in chimpanzee, canine, bovine, mouse, rat, chicken, zebrafish, fruit fly and mosquito, and maps to human chromosome 16p13.3.

REFERENCES

- Daniels, R.J., et al. 2001. Sequence, structure and pathology of the fully annotated terminal 2 Mb of the short arm of human chromosome 16. *Hum. Mol. Genet.* 10: 339-352.
- Pereira-Leal, J.B. and Seabra, M.C. 2001. Evolution of the Rab family of small GTP-binding proteins. *J. Mol. Biol.* 313: 889-901.
- Kile, B.T., et al. 2002. The SOCS box: a tale of destruction and degradation. *Trends Biochem. Sci.* 27: 235-241.

CHROMOSOMAL LOCATION

Genetic locus: RAB40C (human) mapping to 16p13.3; Rab40c (mouse) mapping to 17 A3.3.

SOURCE

Rab 40C (H-8) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 248-267 near the C-terminus of Rab 40C of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Rab 40C (H-8) is available conjugated to agarose (sc-514826 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-514826 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-514826 PE), fluorescein (sc-514826 FITC), Alexa Fluor® 488 (sc-514826 AF488), Alexa Fluor® 546 (sc-514826 AF546), Alexa Fluor® 594 (sc-514826 AF594) or Alexa Fluor® 647 (sc-514826 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-514826 AF680) or Alexa Fluor® 790 (sc-514826 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-514826 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

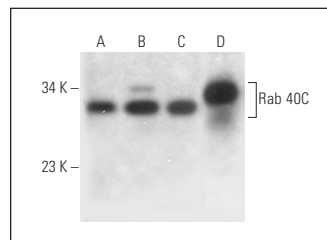
Rab 40C (H-8) is recommended for detection of Rab 40C of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Rab 40C siRNA (h): sc-93437, Rab 40C siRNA (m): sc-152646, Rab 40C shRNA Plasmid (h): sc-93437-SH, Rab 40C shRNA Plasmid (m): sc-152646-SH, Rab 40C shRNA (h) Lentiviral Particles: sc-93437-V and Rab 40C shRNA (m) Lentiviral Particles: sc-152646-V.

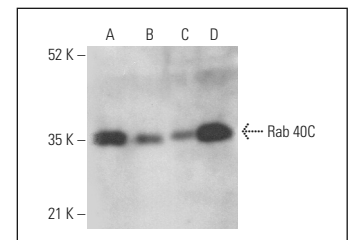
Molecular Weight of Rab 40C: 31 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, HeLa whole cell lysate: sc-2200 or CCRF-CEM cell lysate: sc-2225.

DATA



Rab 40C (H-8): sc-514826. Western blot analysis of Rab 40C expression in Jurkat (A), HeLa (B) and CCRF-CEM (C) whole cell lysates and mouse brain tissue extract (D).



Rab 40C (H-8): sc-514826. Western blot analysis of Rab 40C expression in HeLa (A), Jurkat (B), 3611-RF (C) and K-562 (D) whole cell lysates.

SELECT PRODUCT CITATIONS

- Hegde, B., et al. 2018. Inflammasome-independent leukotriene B₄ production drives crystalline silica-induced sterile inflammation. *J. Immunol.* 200: 3556-3567.
- Linklater, E.S., et al. 2021. Rab40-Cullin5 complex regulates EPLIN and Actin cytoskeleton dynamics during cell migration. *J. Cell Biol.* 220: e202008060.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.