

▶ RBJ (FL-273): sc-135327

BACKGROUND

RBJ, also known as DNAJC27 (DnaJ homolog subfamily C member 27) or RABJS (Rab and DnaJ domain-containing protein), is a 273 amino acid member of both the small GTPase superfamily and the Rab family. Containing one J domain, RBJ is highly expressed in nervous system and reproductive organs, and may lack GTPase activity. Existing as three alternatively spliced isoforms, the RBJ gene is conserved in chimpanzee, canine, bovine, mouse, rat, chicken and zebrafish, and maps to human chromosome 2p23.3. As the second largest human chromosome, chromosome 2 makes up approximately 8% of the human genome and contains 237 million bases encoding over 1,400 genes. A number of genetic diseases are linked to genes on chromosome 2. The lipid metabolic disorder sitosterolemia is associated with ABCG5 and ABCG8. An extremely rare recessive genetic disorder, Alström syndrome, is related to mutations in the ALMS1 gene. Chromosome 2 contains a probable vestigial second centromere as well as vestigial telomeres, which gives credence to the hypothesis that human chromosome 2 formed as a result of an ancient fusion of two ancestral chromosomes, which are still present in modern day apes.

CHROMOSOMAL LOCATION

Genetic locus: DNAJC27 (human) mapping to 2p23.3; Dnajc27 (mouse) mapping to 12 A1.1.

SOURCE

RBJ (FL-273) is a rabbit polyclonal antibody raised against amino acids 1-273 representing full length RBJ of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

RESEARCH USE

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

APPLICATIONS

RBJ (FL-273) is recommended for detection of RBJ of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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).

RBJ (FL-273) is also recommended for detection of RBJ in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for RBJ siRNA (h): sc-94951, RBJ siRNA (m): sc-152722, RBJ shRNA Plasmid (h): sc-94951-SH, RBJ shRNA Plasmid (m): sc-152722-SH, RBJ shRNA (h) Lentiviral Particles: sc-94951-V and RBJ shRNA (m) Lentiviral Particles: sc-152722-V.

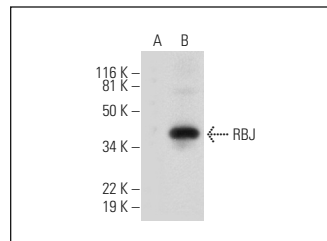
Molecular Weight of RBJ isoforms 1/2/3: 31/11/20 kDa.

Positive Controls: mouse brain extract: sc-2253 or human RBJ transfected HEK293T whole cell lysate.

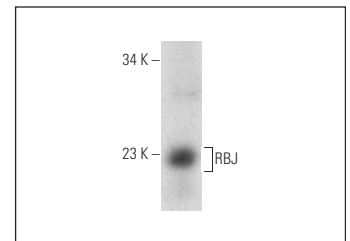
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



RBJ (FL-273): sc-135327. Western blot analysis of RBJ expression in non-transfected (A) and human RBJ transfected (B) HEK293T whole cell lysates.



RBJ (FL-273): sc-135327. Western blot analysis of RBJ expression in mouse brain tissue extract.

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 or our catalog for detailed protocols and support products.


 MONOS
Satisfaction
Guaranteed

Try **RBJ (E-2): sc-390736**, our highly recommended monoclonal alternative to RBJ (FL-273).