

C1qL1 (A-12): sc-139463

BACKGROUND

C1q is part of the C1 enzyme complex, which activates the serum complement system. The residues of the globular domain in C1q share homology with several other secreted and membrane-bound collagen or collagen-like proteins, including pre-cerebellin and collagen types VIII and X, as well as the human and mouse genes encoding Apm1/BPB80 and AdipoQ/ACRP30, respectively. These various C1q-related proteins are found in adipose serum, corneal endothelium, chondrocytes and cerebral Purkinje cells. C1qL1 (complement component 1, q subcomponent-like 1), also known as CRF or C1QRF, is a polypeptide with a hydrophobic signal sequence, a collagenous region and a globular domain at the carboxy terminus, which shares homology to the C1q globular domain. C1qL1 transcripts are most abundant in areas of the nervous system that are associated with motor function, including cerebral Purkinje cells, the pons, the accessory olivary nucleus, and the red nucleus. The similarity of mouse C1qL1 to human C1qL1 suggests a conserved and important role for the protein. In humans, the gene encoding C1qL1 maps to chromosome 17q21.31.

REFERENCES

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3. Brass, A., Kadler, K.E., Thomas, T., Grant, M.E. and Boot-Handford, R.P. 1992. The fibrillar collagen, collagen VIII, collagen X and the C1q complement proteins share a similar domain in their C-terminal non-collagenous regions. *FEBS Lett.* 303: 126-128.
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CHROMOSOMAL LOCATION

Genetic locus: C1QL1 (human) mapping to 17q21.31; C1ql1 (mouse) mapping to 11 E1.

SOURCE

C1qL1 (A-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of C1qL1 of human origin.

STORAGE

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

PRODUCT

Each vial contains 100 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-139463 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

C1qL1 (A-12) is recommended for detection of C1qL1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with C1qL2, C1qL3 or C1qL4.

C1qL1 (A-12) is also recommended for detection of C1qL1 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for C1qL1 siRNA (h): sc-40372, C1qL1 siRNA (m): sc-40373, C1qL1 shRNA Plasmid (h): sc-40372-SH, C1qL1 shRNA Plasmid (m): sc-40373-SH, C1qL1 shRNA (h) Lentiviral Particles: sc-40372-V and C1qL1 shRNA (m) Lentiviral Particles: sc-40373-V.

Molecular Weight of C1qL1: 26 kDa.

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) 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.

RESEARCH USE

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

PROTOCOLS

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