

# C1QBP (D-19): sc-10258

## BACKGROUND

The human complement subcomponent C1q associates with C1r and C1s in order to yield the first component of the serum complement system (SCS). The SCS contains over 30 glycoproteins that influence physiological mechanisms of the body in response to immune complex (the classical pathway), carbohydrate (the lectin pathway) or bacterial (alternative pathway) initiation. C1q binding protein (C1QBP), also designated gC1q-R, p32 (p33) or HABP1 (hyaluronan-binding protein 1), is known to bind the globular heads of C1q molecules and inhibit C1 activation. C1QBP has been described as a complement receptor for C1q on B cells, neutrophils and mast cells. The C1QBP protein may form homodimers. C1QBP is expressed in vascular endothelial cells and has been found to be a multifunctional protein interacting with elements of complement, coagulation and kinin systems. In addition, C1QBP is a subunit of pre-mRNA splicing factor SF2/ASF.

## REFERENCES

1. Krainer, A.R., et al. 1991. Functional expression of cloned human splicing factor SF2: homology to RNA-binding proteins, U1 70K, and *Drosophila* splicing regulators. *Cell* 66: 383-394.
2. Deb, T.B., et al. 1996. Molecular cloning of human fibroblast hyaluronic acid-binding protein confirms its identity with P-32, a protein co-purified with splicing factor SF2. Hyaluronic acid-binding protein as P-32 protein, co-purified with splicing factor SF2. *J. Biol. Chem.* 271: 2206-2212.
3. Guo, N., et al. 1997. Assignment of C1QBP encoding the C1q globular domain binding protein (gC1q-R) to human chromosome 17 band p13.3 by *in situ* hybridization. *Cytogenet. Cell Genet.* 77: 283-284.
4. Dedio, J., et al. 1998. The multiligand-binding protein gC1qR, putative C1q receptor, is a mitochondrial protein. *J. Immunol.* 160: 3534-3542.
5. Dedio, J., et al. 1999. Subcellular targeting of multiligand-binding protein gC1qR. *Immunopharmacology* 45: 1-5.

## CHROMOSOMAL LOCATION

Genetic locus: C1QBP (human) mapping to 17p13.2; C1qbp (mouse) mapping to 11 B4.

## SOURCE

C1QBP (D-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of C1QBP 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.

Blocking peptide available for competition studies, sc-10258 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

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

## APPLICATIONS

C1QBP (D-19) is recommended for detection of C1QBP 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).

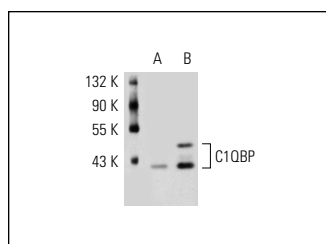
C1QBP (D-19) is also recommended for detection of C1QBP in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for C1QBP siRNA (h): sc-42880, C1QBP siRNA (m): sc-42881, C1QBP shRNA Plasmid (h): sc-42880-SH, C1QBP shRNA Plasmid (m): sc-42881-SH, C1QBP shRNA (h) Lentiviral Particles: sc-42880-V and C1QBP shRNA (m) Lentiviral Particles: sc-42881-V.

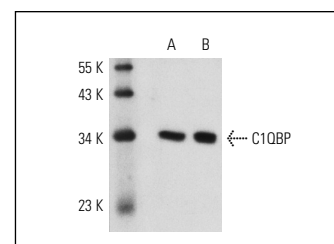
Molecular Weight of C1QBP: 33 kDa.

Positive Controls: C1QBP (h): 293 Lysate: sc-113035, HeLa whole cell lysate: sc-2200 or Jurkat whole cell lysate: sc-2204.

## DATA



C1QBP (D-19): sc-10258. Western blot analysis of C1QBP expression in non-transfected: sc-110760 (A) and human C1QBP transfected: sc-113035 (B) 293 whole cell lysates.



C1QBP (D-19): sc-10258. Western blot analysis of C1QBP expression in HeLa (A) and Jurkat (B) whole cell lysates.

## SELECT PRODUCT CITATIONS

1. Rizvi, F., et al. 2011. Mitochondrial dysfunction links ceramide activated HRK expression and cell death. *PLoS ONE* 6: e18137.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **C1QBP (H-9): sc-271200** or **C1QBP (B-6): sc-271201**, our highly recommended monoclonal alternatives to C1QBP (D-19).