



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Factor B (h): 293 Lysate: sc-159858

## BACKGROUND

The complement component proteins, C3, C4 and C5, are potent anaphylatoxins that are released during complement activation. Binding of these proteins to their respective G protein-coupled receptors, C3 $\alpha$ R, C1R and C5 $\alpha$ R, induces proinflammatory events, such as cellular degranulation, smooth muscle contraction, arachidonic acid metabolism, cytokine release, leukocyte activation and cellular chemotaxis. Complement Factor B, also designated properdin Factor B or PBF2, is part of the alternate pathway of the complement system and is cleaved by Factor D into two fragments: B $\alpha$  and B $\beta$ . B $\beta$  combines with complement Factor 3 $\beta$  to produce the C3 or C5 convertase and plays a role in the differentiation and proliferation of preactivated B lymphocytes, lysis of erythrocytes, stimulation of lymphocyte blastogenesis and rapid spreading of peripheral blood monocytes. B $\alpha$  is important in inhibiting the proliferation of preactivated B lymphocytes. Adipsin, also designated complement Factor D, is a serine protease that cleaves complement Factor B and may be involved in obesity. Factor H controls the function of the alternative complement pathway. FHR-1 (complement Factor H related protein 1) may play a role in lipid metabolism.

## REFERENCES

1. Woods, D.E., et al. 1982. Isolation of cDNA clones for the human complement protein Factor B, a class III major histocompatibility complex gene product. *Proc. Natl. Acad. Sci. USA* 79: 5661-5665.
2. Campbell, R.D., et al. 1983. Molecular cloning and characterization of the gene coding for human complement protein Factor B. *Proc. Natl. Acad. Sci. USA* 80: 4464-4468.
3. Mole, J.E., et al. 1984. Complete primary structure for the zymogen of human complement Factor B. *J. Biol. Chem.* 259: 3407-3412.
4. Wu, L.C., et al. 1987. Cell-specific expression of the human complement protein Factor B gene: evidence for the role of two distinct 5'-flanking elements. *Cell* 48: 331-342.
5. Kolb, W.P., et al. 1989. B $\alpha$  and B $\beta$  fragments of Factor B activation: fragment production, biological activities, neoepitope expression and quantitation in clinical samples. *Complement Inflamm.* 6: 175-204.
6. Niemann, M.A., et al. 1991. The principal site of glycation of human complement Factor B. *Biochem. J.* 274: 473-480.
7. Jing, H., et al. 2000. New structural motifs on the Chymotrypsin fold and their potential roles in complement Factor B. *EMBO J.* 19: 164-173.

## CHROMOSOMAL LOCATION

Genetic locus: CFB (human) mapping to 6p21.33.

## PRODUCT

Factor B (h): 293 Lysate represents a lysate of human Factor B transfected 293 cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

## STORAGE

Store at -20 $^{\circ}$  C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## APPLICATIONS

Factor B (h): 293 Lysate is suitable as a Western Blotting positive control for human reactive Factor B antibodies. Recommended use: 10-20  $\mu$ l per lane.

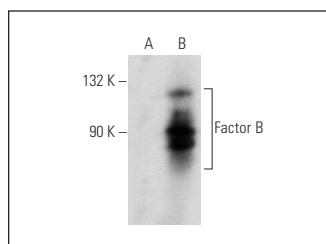
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

Factor B (F-7): sc-271636 is recommended as a positive control antibody for Western Blot analysis of enhanced human Factor B expression in Factor B transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

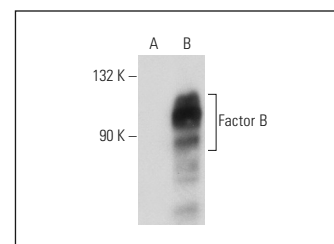
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:  
 1) Western Blotting: use m-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™  
 Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

## DATA



Factor B (F-7): sc-271636. Western blot analysis of Factor B expression in non-transfected: sc-110760 (A) and human Factor B transfected: sc-159858 (B) 293 whole cell lysates.



Factor B (986): sc-57506. Western blot analysis of Factor B expression in non-transfected: sc-110760 (A) and human Factor B transfected: sc-159858 (B) 293 whole cell lysates.

## 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) for detailed protocols and support products.