

# Anti-Complement C3 (beta chain) Antibody

0809-8



<b>Product Type:</b>	Rabbit polyclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	WB
<b>Molecular Wt:</b>	70kDa

**Description:** Human Complement C3 (C3) is synthesized as a single-chain pro-molecule (185 kDa) that suffers several posttranslational modifications. Before being a mature protein, C3 is split into beta-chain (70 kDa) and alpha chain (115 kDa) and forms a rare internal thioester bond. C3 plays a central role in the activation of the complement system. It's processing by C3 convertase is the central reaction in both classical and alternative complement pathways. After activation C3b can bind covalently, via its reactive thioester, to cell surface carbohydrates or immune aggregates.

**Immunogen:** Synthetic peptide within human Complement C3 beta chain aa 71-120.

**Positive control:** Human plasma.

**Subcellular location:** Secretory protein

**Database links:** SwissProt: P01024 Human

**Recommended Dilutions:**

**WB** 1:1,000

**Storage Buffer:** 1\*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

**Purity:** Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders: 0086-571-88062880

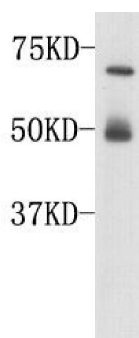
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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

## Images



**Fig1:** Western blot analysis on human serum using anti-complement C3 polyclonal antibody. Note: 50kD band is caused by nonspecific reaction (goat anti-rabbit to human heavy chain).

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

## Background References

1. "Structure of C3b reveals conformational changes that underlie complement activity." Janssen B.J.C., Christodoulidou A., McCarthy A., Lambris J.D., Gros P. *Nature* 444:213-216(2006)
2. "Disulfide bridges in human complement component C3b." Dolmer K., Sottrup-Jensen L. *FEBS Lett.* 315:85-90(1993)
3. "Identification and quantification of N-linked glycoproteins using hydrazide chemistry, stable isotope labeling and mass spectrometry." Zhang H., Li X.-J., Martin D.B., Aebersold R. *Nat. Biotechnol.* 21:660-666(2003)

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