

Anti-Complement factor B Antibody [JE54-96]

HA722704



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB
Molecular Wt:	Predicted band size: 86 kDa
Clone number:	JE54-96

Description: Complement factor B is a protein that in humans is encoded by the CFB gene. This gene encodes complement factor B, a component of the alternative pathway of complement activation. Factor B circulates in the blood as a single chain polypeptide. Upon activation of the alternative pathway, it is cleaved by complement factor D yielding the noncatalytic chain Ba and the catalytic subunit Bb. The active subunit Bb is a serine protease that associates with C3b to form the alternative pathway C3 convertase. Bb is involved in the proliferation of preactivated B lymphocytes, while Ba inhibits their proliferation. This gene localizes to the major histocompatibility complex (MHC class III) region on chromosome 6. This cluster includes several genes involved in regulation of the immune reaction. The polyadenylation site of this gene is 421 bp from the 5' end of the gene for complement component 2.

Immunogen: Synthetic peptide within human Complement factor B aa 715-764 / 764.

Positive control: Human lung tissue lysate, Mouse lung tissue lysate, Rat lung tissue lysate.

Subcellular location: Secreted.

Database links: SwissProt: P00751 Human | P04186 Mouse
Entrez Gene: 294257 Rat

Recommended Dilutions:
WB 1:1,000

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

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term.

Purity: Protein A 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

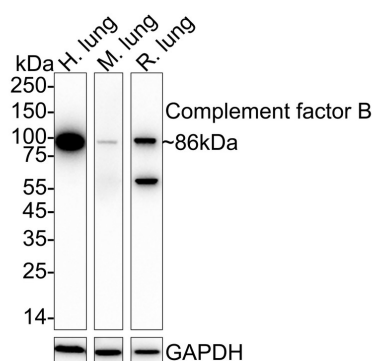


Fig1: Western blot analysis of Complement factor B on different lysates with Rabbit anti-Complement factor B antibody (HA722704) at 1/1,000 dilution.

Lane 1: Human lung tissue lysate

Lane 2: Mouse lung tissue lysate

Lane 3: Rat lung tissue lysate

Lysates/proteins at 40 µg/Lane.

Predicted band size: 86 kDa

Observed band size: 86 kDa

Exposure time: 3 minutes; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA722704) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

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

Background References

1. Peng M et al. Complement factor B/C2 in molluscs regulates agglutination and illuminates evolution of the Bf/C2 family. FASEB J. 2019 Dec
2. Akhlaghpour M et al. Genetic coding variant in complement factor B (CFB) is associated with increased risk for perianal Crohn's disease and leads to impaired CFB cleavage and phagocytosis. Gut. 2023 Nov

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