bs-4871R **[Primary Antibody]**

Complement C3 beta chain Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 718 **SWISS:** P01024

Target: Complement C3 beta chain

Immunogen: KLH conjugated synthetic peptide derived from human Complement C3 beta chain: 581-667/1663.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: The complement factor C3 consists of an alpha and a beta chain. C3 is a central factor in the complement cascade. It is central to the alternative pathway that leads to the C3 convertase C3bBb. The classical mannose binding lectin activation pathway leads to the C3 convertase C4b2a. These convertases cleave C3 resulting in C3a and C3b. Further degradation leads to the formation of the alpha chain products C3d, C3g and C3c. C3 is an acute phase protein that is produced by a wide range of tissues, including renal epithelial cells and hepatocytes.

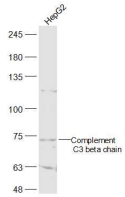
Applications: **WB** (1:500-2000)

Reactivity: Human (predicted: Mouse, Rat)

Predicted MW.: 71/181 kDa

Subcellular Location: Secreted

VALIDATION IMAGES



Sample: HepG2(Human) Cell Lysate at 30 ug
Primary: Anti-Complement C3 beta chain (bs-4871R) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 71/181 kD
Observed band size: 71 kD

SELECTED CITATIONS

- **[IF=16.988]** Wu Yutong. et al. Osteoclast-Derived Apoptotic Bodies Inhibit Naive Cd8 T Cell Activation via Siglec15 Promoting Breast Cancer Secondary Metastasis. Cell Reports Medicine. 2022 Nov 03 WB ;Mouse. 37607544
- **[IF=7.109]** Wu Yutong. et al. Reduced osteoclast-derived apoptotic bodies in bone marrow characterizes the pathological progression of osteoporosis. CELL DEATH DISCOV. 2023 Apr;9(1):1-9 WB ;Mouse. 37185334
- **[IF=5.38]** de Fatima Magliarelli, Helena, et al. "Liver ubiquitome uncovers nutrient-stress-mediated trafficking and secretion of complement C3." Cell Death & Disease 7.10 (2016): e2411. IHC ;Mouse. 27735945