bs-15197R **[Primary Antibody]**

C5a Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 727 **SWISS:** P01031

Target: C5a

Immunogen: KLH conjugated synthetic peptide derived from human Complement C5 alpha chain: 951-1100/1676.

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: Activation of the complement system plays a key role in normal inflammatory response to injury but may cause substantial injury when activated inappropriately. The complement system is activated either through the classical (antibody induced) or the alternative (microbial surface, polysacharride induced) pathway, both leading to the formation of the C5b9 complex. Fluid phase binding of the multifunctional glycoprotein S protein (vitronectin) to C5b9 leads to the formation of a cytolytically inactive complex, SC5b9, which is unable to attach to cells.

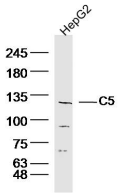
Applications: **WB** (1:500-2000)
Flow-Cyt (2ug/Test)

Reactivity: Human (predicted: Mouse, Rat)

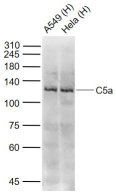
Predicted MW.: 104/112 kDa

Subcellular Location: Secreted

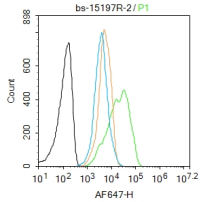
VALIDATION IMAGES



Sample: HepG2 (human) Lysate at 40 ug Primary: Anti- C5 (bs-15197R)at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 104/112kD Observed band size: 117kD



Sample: Lane 1: A549 (Human) Cell Lysate at 30 ug Lane 2: Hela (Human) Cell Lysate at 30 ug Primary: Anti-C5a (bs-15197R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 115/105 kD Observed band size: 115 kD



Blank control: HepG2. Primary Antibody (green line): Rabbit Anti-C5 antibody (bs-15197R) Dilution: 2µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF647 Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=9.3]** Hartmannsberger Beate. et al. Transient immune activation without loss of intraepidermal innervation and associated Schwann cells in patients with complex regional pain syndrome. J NEUROINFLAMM. 2024 Dec;21(1):1-15 IF ;Human. 38233858

- **[IF=6.2]** Chuanxin Liu. et al. Podophyllotoxin mediates hepatic toxicity via the C5a/C5aR/ROS/NLRP3 and cGMP/PKG/mTOR axis in rats based on toxicological evidence chain (TEC) concept by phosphoproteomic analysis. ECOTOX ENVIRON SAFE. 2025 Jan;289:117441 WB ;Rat. 39644570
- **[IF=5.23]** Liu, Long, et al. "Prosteatotic and Protective Components in a Unique Model of Fatty Liver: Gut Microbiota and Suppressed Complement System."Scientific Reports 6 (2016): 31763. WB ;="Others". 27550859
- **[IF=5.1]** Wen Liao. et al. Lactobacillus rhamnosus LC-STH-13 ameliorates the progression of SLE in MRL/lpr mice by inhibiting the TLR9/NF-κB signaling pathway. FOOD FUNCT. 2024 Dec;: WB ;Mouse. 39744924
- **[IF=5.1]** Wen Liao. et al.Lactobacillus rhamnosusLC-STH-13 ameliorates the progression of SLE in MRL/lpr mice by inhibiting the TLR9/NF-κB signaling pathway † .FOOD & FUNCTION.2025 Jan 20;16(2):475-486. Western blot ;Mouse. 39744924