SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-Complement component C9b antibody

Catalog Number: SL15307R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Complement component C9b
Immunogen:	KLH conjugated synthetic peptide derived from human Complementcomponent C9b: 251-350/559
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℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 Flow-Cyt=1ug/Test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human(predicted:Mouse,Rat,Dog,Pig,Cow,Sheep)
Predicted MW.:	32/61kDa
Subcellular Location:	The cell membrane Secretory protein
Background:	C9 is a plasma protein synthesized in the liver and monocytes consisting of a single polypeptide chain. C9 is a part of the membrane attack complex (MAC), an important component of the immune system. The MAC forms upon complement system activation by invading pathogenic bacteria and consists of the four major complement proteins: C5b, C6, C7 and C8. These complement proteins bind to the outer surface of the plasma membrane of the invading cell. C9 binds to the membrane associated C5b-8 protein, which leads to the circular polymerization of 12-18 C9 molecules. These polymerized C9 molecules form a ring structure in the membrane. Molecules can then diffuse freely through this transmembrane channel, causing cell lysis and destruction of the invading bacterial cell. **Function:** Constituent of the membrane attack complex (MAC) that plays a key role in the innate and adaptive immune response by forming pores in the

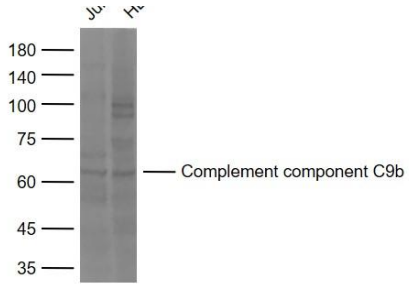
Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

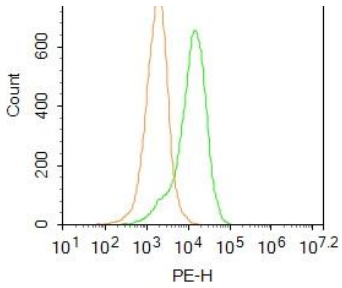
	plasma membrane of target cells. C9 is the pore-forming subunit of the MAC. **Subunit:** Component of the membrane attack complex (MAC). MAC assembly is initiated by protelytic cleavage of C5 into C5a and C5b. C5b binds sequentially C6, C7, C8 and multiple copies of the pore-forming subunit C9. **Subcellular Location:** Secreted. Cell membrane; Multi-pass membrane protein. Note=Secreted as soluble monomer. Oligomerizes at target membranes, forming a pre-pore. A conformation change then leads to the formation of a 100 Angstrom diameter pore. **Tissue Specificity:** Plasma. **Post-translational modifications:** Thrombin cleaves factor C9 to produce C9a and C9b. Phosphorylation sites are present in the extracellular medium. DISEASE: Defects in C9 are a cause of complement component 9 deficiency (C9D) [MIM:613825]. A rare defect of the complement classical pathway associated with susceptibility to severe recurrent infections, predominantly by Neisseria gonorrhoeae or Neisseria meningitidis. [SIMILARITY] Belongs to the complement C6/C7/C8/C9 family. **Similarity:** Contains 1 EGF-like domain. Contains 1 LDL-receptor class A domain. Contains 1 MACPF domain. Contains 1 TSP type-1 domain. **Database links:** **Entrez Gene:** 735 Human Omim: 120940 Human **SwissProt:** P02748 Human **Unigene:** 654443 Human

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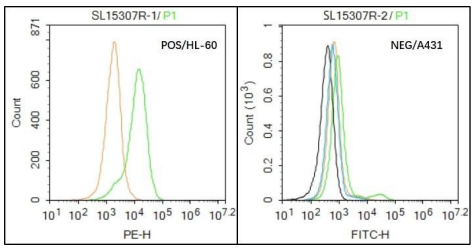
[VALIDATION IMAGES]





Sample:
Lane 1: Human Jurkat cell lysates
Lane 2: Human HL-60 cell lysates
Primary: Anti-Complement component C9b (SL15307R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 32/61 kDa
Observed band size: 61 kDa

Blank control: HL60.
Primary Antibody (green line): Rabbit Anti-Complement component C9b antibody (SL15307R)
Dilution: 1μg /10^6 cells;
Isotype Control Antibody (orange line): Rabbit IgG .
Secondary Antibody : Goat anti-rabbit IgG-PE
Dilution: 1μg /test.
Protocol
The cells then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at 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.



Black line : Positive blank control (HL60); Negative blank control (A431）
Green line : Primary Antibody (Rabbit Anti-C9b antibody (SL15370R))
Orange line：Isotype Control Antibody (Rabbit IgG) .
Blue line : Secondary Antibody (Goat anti-rabbit IgG-PE)/(Goat anti-rabbit IgG-AF488)
HL60（Positive）and A431（Negative control）cells (black) were incubated in 5% BSA blocking buffer for 30 min at room temperature. Cells were then stained with C9b Antibody(SL15307R)at 1:50 dilution in blocking buffer and incubated for 30 min at room temperature, washed twice with 2% BSA in PBS, followed by secondary antibody(blue) incubation for 40 min at room temperature. Acquisitions of 20,000 events were performed. Cells stained with primary antibody (green), and isotype control (orange).

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