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Complement C9 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51027

Specification

Complement C9 Antibody - Product Information

Application	**WB, IHC-P, E**
Primary Accession	P02748
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**71 KDa**

Complement C9 Antibody - Additional Information

Gene ID 735

Other Names
Complement component C9, Complement component C9a, Complement component C9b, C9

Dilution
WB~~1:1000
IHC-P~~N/A
E~~N/A

Format
0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Complement C9 Antibody - Protein Information

Name C9 {ECO:0000303|PubMed:4018030, ECO:0000312|HGNC:HGNC:1358}

Function
Pore-forming component of the membrane attack complex (MAC), a multiprotein complex activated by the complement cascade, which inserts into a target cell membrane and forms a pore, leading to target cell membrane rupture and cell lysis (PubMed:22832194, PubMed:26841837, PubMed:26841934, PubMed:27052168, PubMed:30552328, PubMed:6177822, PubMed:9212048, PubMed:9634479). The MAC is initiated by proteolytic cleavage of C5 into complement C5b in response to the classical,

alternative, lectin and GZMK complement pathways (PubMed:9212048, PubMed:9634479). The complement pathways consist in a cascade of proteins that leads to phagocytosis and breakdown of pathogens and signaling that strengthens the adaptive immune system (PubMed:9212048, PubMed:9634479). Constitutes the pore-forming subunit of the MAC complex: during MAC assembly, C9 associates with the C5b8 intermediate complex, and polymerizes to complete the pore (PubMed:26841934, PubMed:30111885, PubMed:30552328, PubMed:34752492, PubMed:4055801, PubMed:6177822).

Cellular Location
Secreted. Target cell membrane; Multi-pass membrane protein. Note=Secreted as soluble monomer (PubMed:26841934, PubMed:30111885, PubMed:4055801, PubMed:9634479) Oligomerizes at target membranes, forming a pre-pore (PubMed:26841934, PubMed:30111885, PubMed:31061395, PubMed:4055801, PubMed:9634479). A conformation change then leads to the formation of a 100 Angstrom diameter pore (PubMed:26841934, PubMed:30111885, PubMed:31061395, PubMed:4055801, PubMed:9634479).

Tissue Location
Plasma (at protein level).

Complement C9 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Complement C9 Antibody - Images

Complement C9 Antibody - Background

Constituent of the membrane attack complex (MAC) that plays a key role in the innate and adaptive immune response by forming pores in the plasma membrane of target cells. C9 is the pore-forming subunit of the MAC.

Complement C9 Antibody - References

Stanley K.K.,et al.EMBO J. 4:375-382(1985).
Discipio R.G.,et al.Proc. Natl. Acad. Sci. U.S.A. 81:7298-7302(1984).
Marazziti D.,et al.Biochemistry 27:6529-6534(1988).
Witzel-Schloemp K.,et al.Immunogenetics 48:144-147(1998).
DiScipio R.G.,et al.J. Biol. Chem. 260:14802-14809(1985).