

C4 Rabbit mAb

Catalog No: #49604



Package Size: #49604-1 50ul #49604-2 100ul

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Description

Product Name	C4 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JM88-13
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC
Species Reactivity	Hu
Immunogen Description	Recombinant protein
Other Names	Acidic C4 antibody Acidic complement C4 antibody Basic C4 antibody Basic complement C4 antibody C3 and PZP-like alpha-2-macroglobulin domain-containing protein 2 antibody C3 and PZP-like alpha-2-macroglobulin domain-containing protein 3 antibody C4, Chido form antibody C4, Rodgers form antibody C4A anaphylatoxin antibody C4A antibody C4A2 antibody C4A3 antibody C4A4 antibody C4A6 antibody C4AD antibody C4B antibody C4B_2 antibody C4B1 antibody C4B12 antibody C4B2 antibody C4B3 antibody C4BD antibody C4F antibody C4S antibody CH antibody Chido form of C4 antibody CO4 antibody CO4A_HUMAN antibody Complement C4 gamma chain antibody complement C4-A antibody complement C4-B antibody complement C4-B-like antibody complement C4B1a antibody Complement component 4A (Rodgers blood group) antibody Complement component 4A antibody complement component 4B (Chido blood group), copy 2 antibody Complement component 4B (Chido blood group) antibody Complement component 4B antibody Complement component 4F antibody Complement component 4S antibody CPAMD2 antibody CPAMD3 antibody RG antibody Rodgers form of C4 antibody
Accession No.	Swiss-Prot#:P0C0L4
Calculated MW	193 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

Application Details

WB: 1:200-1:500IHC: 1:50-1:200 ICC: 1:50-1:200

Background

The complement component proteins C3, C4 and C5 are potent anaphylatoxins that are released during complement activation, a system of ligand-surface protein interactions specific to cells of hematopoietic lineage. These proteins belong to the α 2-macroglobulin family, but retain distinctive features including an anaphylatoxin domain and a netrin (NTR) domain. The human C4 gene is polymorphic at two loci, C4A and C4B, mapping to chromosome 6p21.32. C4A expresses the Rodgers (Rg) blood group Ag, while C4B expresses the Chido (Ch) blood group Ag. C4 is expressed as a precursor that is cleaved into α , β and γ chains, all of which are non-identical cleavage products. The α chain of C4 may be cleaved to produce an acidic isotype, C4a, which reacts with amino groups, and a basic isotype, C4b, which reacts with hydroxyl groups. Deficiency in the C4 gene is associated with autoimmune or immune complex disorders, such as systemic lupus erythematosus.

References

1. Garland DL et al. Mouse genetics and proteomic analyses demonstrate a critical role for complement in a model of DHRD/ML, an inherited macular degeneration. *Hum Mol Genet* 23(1):52-68 (2014).
2. Cohen D et al. Classical complement activation as a footprint for murine and human antiphospholipid antibody-induced fetal loss. *J Pathol* 225:502-11 (2011).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.