



## C4d

Mouse Monoclonal Antibody (Mab)
Catalog # APA279

# **Specification**

## **C4d - Product Information**

Application IHC
Primary Accession POCOL4
Host Mouse
Clonality Monoclonal
Calculated MW 192785 Da

### **C4d - Additional Information**

Gene ID 720;721
Gene Name C4A

**Other Names** 

Complement C4-A, Acidic complement C4, C3 and PZP-like alpha-2-macroglobulin domain-containing protein 2, Complement C4 beta chain, Complement C4-A alpha chain, C4a anaphylatoxin, C4b-A, C4d-A, Complement C4 gamma chain, C4A, CO4, CPAMD2

**Dilution** 

IHC~~1:100~500

Storage Maintain refrigerated at 2-8°C for up to 2

weeks. For long term storage store at -20°C in small aliquots to prevent

freeze-thaw cycles.

Precautions C4d is for research use only and not for

use in diagnostic or therapeutic

procedures.

#### **C4d - Protein Information**

Name C4A

Synonyms CO4, CPAMD2

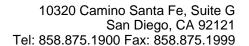
Function

Non-enzymatic component of C3 and C5
convertases and thus essential for the
propagation of the classical complement

pathway. Covalently binds to

immunoglobulins and immune complexes and enhances the solubilization of immune aggregates and the clearance of IC through

CR1 on erythrocytes. C4A isotype is responsible for effective binding to form amide bonds with immune aggregates or protein antigens, while C4B isotype catalyzes the transacylation of the





Cellular Location

Tissue Location

thioester carbonyl group to form ester bonds with carbohydrate antigens. Secreted. Cell junction, synapse. Cell projection, axon. Cell projection, dendrite Complement component C4 is expressed at highest levels in the liver, at moderate levels in the adrenal cortex, adrenal medulla, thyroid gland, and the kidney, and at lowest levels in the heart, ovary, small intestine, thymus, pancreas and spleen. The extra- hepatic sites of expression may be important for the local protection and inflammatory response.

### C4d - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

C4d - Images