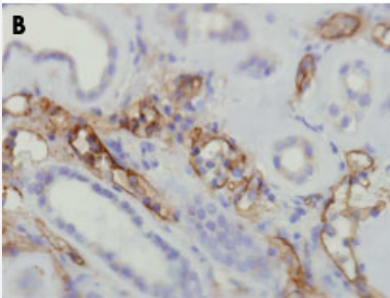
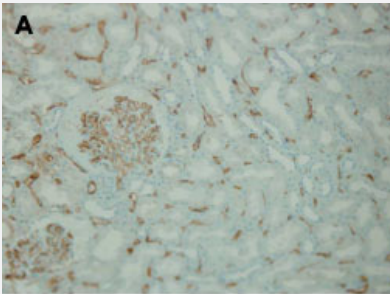


C4A monoclonal antibody, clone A24-T

Catalog # MAB9758

Size 100 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human transplanted kidney stained with C4A monoclonal antibody, clone A24-T (Cat # MAB9758) shows diffuse strong positive immunostaining of peritubular and glomerular capillaries (A), indicating acute antibody mediated rejection and diffuse strong positive immunostaining of dilated peritubular moderate capillaries (B), indicating acute antibody mediated rejection.

Kindly performed and provided by Marian Svajdler, MD and Dr. Lucia Frohlichova from Louis Pasteur University Hospital Department of Pathology, Kosice, Slovak Republic.

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic peptide of C4A.
Immunogen	A synthetic peptide corresponding to internal region of human C4A.
Host	Rabbit
Reactivity	Mouse
Form	Liquid
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:100-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM Tris-HCl, pH 8.0 (20 mg/mL BSA, 0.05% sodium azide)
Storage Instruction	Store at 4°C.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Immunohistochemistry (Frozen sections)

Gene Info — C4A

Entrez GeneID [720](#)

Protein Accession# [P0C0L4](#)

Gene Name C4A

Gene Alias C4, C4A2, C4A3, C4A4, C4A6, C4S, CO4, CPAMD2, MGC164979, RG

Gene Description complement component 4A (Rodgers blood group)

Omim ID [120810](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes the acidic form of complement factor 4, part of the classical activation pathway. The protein is expressed as a single chain precursor which is proteolytically cleaved into a trimer of alpha, beta, and gamma chains prior to secretion. The trimer provides a surface for interaction between the antigen-antibody complex and other complement components. The alpha chain may be cleaved to release C4 anaphylatoxin, a mediator of local inflammation. Deficiency of this protein is associated with systemic lupus erythematosus and type I diabetes mellitus. This gene localizes to the major histocompatibility complex (MHC) class III region on chromosome 6. Varying haplotypes of this gene cluster exist, such that individuals may have 1, 2, or 3 copies of this gene. [provided by RefSeq]

Other Designations C4A anaphylatoxin|OTTHUMP00000029266|Rodgers form of C4|acidic C4|complement component 4A

Pathway

- [Complement and coagulation cascades](#)
- [Systemic lupus erythematosus](#)

Disease

- [Adrenal hyperplasia](#)
- [Atherosclerosis](#)
- [Autoimmune Diseases](#)
- [Cardiovascular Diseases](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Disease Models](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Liver Cirrhosis](#)
- [Lupus Erythematosus](#)
- [Lymphoma](#)
- [Opportunistic Infections](#)
- [Purpura](#)
- [Recurrence](#)