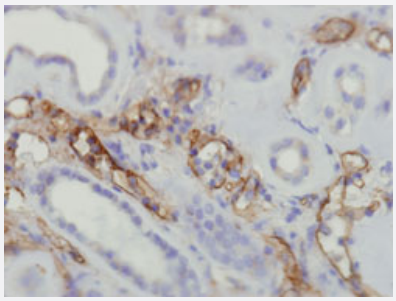
C4A/C4B monoclonal antibody, clone A24-T

Catalog # MAB15964 Size 200 uL

Applications



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human kidney with C4A/C4B monoclonal antibody, clone A24-T (Cat # MAB15964).

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic peptide of human C4A/C4B.
Immunogen	A synthetic peptide corresponding to internal region of human C4.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	EVAC purification
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 buffer, pH 8.0 (20 mg/mL BSA, 0.05% Sodium Azide).
Storage Instruction	Store at 4°C. Do not freeze.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human kidney with C4A/C4B monoclonal antibody, clone A24-T (Cat # MAB15964).

Gene Info — C4A

Entrez GeneID	720
Protein Accession#	P0C0L4;P0C0L5
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

Gene Info — C4B

Entrez GeneID	721
Protein Accession#	P0C0L4;P0C0L5
Gene Name	C4B
Gene Alias	C4A, C4A13, C4A91, C4B1, C4B12, C4B2, C4B3, C4B5, C4F, CH, CO4, CPAMD3, FLJ60561, MGC164979

Gene Description	complement component 4B (Chido blood group)
Omim ID	120820
Gene Ontology	Hyperlink
Gene Summary	This gene encodes the basic 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 protei n is associated with systemic lupus erythematosus. This gene localizes to the major histocompati bility complex (MHC) class III region on chromosome 6. Varying haplotypes of this gene cluster exi st, such that individuals may have 1, 2, or 3 copies of this gene. In addition, this gene exists as a l ong form and a short form due to the presence or absence of a 6.4 kb endogenous HERV-K retro virus in intron 9. [provided by RefSeq
Other Designations	Chido form of C4|OTTHUMP00000029269|basic C4|complement C4B1a|complement componen t 4B|complement component 4B (Childo blood group)

Publication Reference

- Detection of C3d-binding donor-specific anti-HLA antibodies at diagnosis of humoral rejection predicts renal graft loss.

  Sicard A, Ducreux S, Rabeyrin M, Couzi L, McGregor B, Badet L, Scoazec JY, Bachelet T, Lepreux S, Visentin J, Merville P, Fremeaux-Bacchi V, Morelon E, Taupin JL, Dubois V, Thaunat O.

  Journal of the American Society of Nephrology 2015 Feb; 26(2):457.

Pathway

- Complement and coagulation cascades
- Complement and coagulation cascades
- Systemic lupus erythematosus
- Systemic lupus erythematosus

Disease

- Adrenal hyperplasia
- Adrenal hyperplasia

- Alzheimer disease
- Angina Pectoris
- Atherosclerosis
- Atherosclerosis
- Autistic Disorder
- Autoimmune Diseases
- Autoimmune Diseases
- Cardiovascular Diseases
- Cardiovascular Diseases
- Cerebrovascular Disorders
- Coronary Artery Disease
- Coronary Artery Disease
- Diabetes Complications
- Diabetes Mellitus
- Diabetes Mellitus
- Disease Models
- Edema
- Edema
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Liver Cirrhosis
- Lupus Erythematosus
- Lupus Erythematosus
- Lymphoma
- Metabolic Syndrome X
- Myocardial Infarction

- Neoplasms
- Opportunistic Infections
- Opportunistic Infections
- Osteoporosis
- Purpura
- Recurrence
- Recurrence