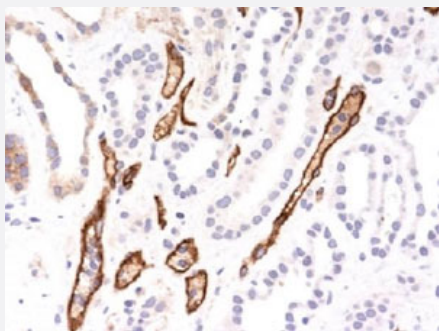


Complement 4d monoclonal antibody, clone SPM545

Catalog # MAB15179 Size 100 ug

Applications



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human kidney transplant.

Specification

Product Description	Mouse monoclonal antibody raised against recombinant human complement 4d.
Immunogen	Recombinant protein corresponding to human complement 4d.
Host	Mouse
Reactivity	Human
Form	Liquid
Purification	Protein A/G purification
Isotype	IgG1, kappa
Recommend Usage	ELISA (For coating use at 1-2 ug/mL without BSA) Immunofluorescence (1:50-100) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:200-400) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS (0.05% BSA, 0.05% 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)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human kidney transplant.

- Immunofluorescence

- Enzyme-linked Immunoabsorbent Assay

Gene Info — C4B

Entrez GeneID [721](#)

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 protein is associated with systemic lupus erythematosus. 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. In addition, this gene exists as a long form and a short form due to the presence or absence of a 6.4 kb endogenous HERV-K retrovirus in intron 9. [provided by RefSeq]

Other Designations Chido form of C4|OTTHUMP00000029269|basic C4|complement C4B1a|complement component 4B|complement component 4B (Chido blood group)

Publication Reference

- [Antibody-mediated rejection criteria - an addition to the Banff 97 classification of renal allograft rejection.](#)

Racusen LC, Colvin RB, Solez K, Mihatsch MJ, Halloran PF, Campbell PM, Cecka MJ, Cosyns JP, Demetris AJ, Fishbein MC, Fogo A, Furness P, Gibson IW, Glotz D, Hayry P, Hunsicker L, Kashgarian M, Kerman R, Magil AJ, Montgomery R, Morozumi K, Nickleleit V, Randhawa P, Regele H, Seron D, Seshan S, Sund S, Trpkov K.

American Journal of Transplantation 2003 Jun; 3(6):708.

Application: IF, Human, Human kidney

- [Footprints of humoral rejection.](#)

Sacks SH, Chowdhury P.

Current Opinion in Nephrology and Hypertension 2002 Nov; 11(6):627.

Application: IHC-Fr, IHC-P, Human, Human kidney, Human tissues

- [Complement activation in acute humoral renal allograft rejection: diagnostic significance of C4d deposits in peritubular capillaries.](#)

Collins AB, Schneeberger EE, Pascual MA, Saidman SL, Williams WW, Tolkoff-Rubin N, Cosimi AB, Colvin RB.

Journal of the American Society of Nephrology 1999 Oct; 10(10):2208.

Application: IF, Human, Renal allograft biopsies

Pathway

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

Disease

- [Adrenal hyperplasia](#)
- [Alzheimer disease](#)
- [Angina Pectoris](#)
- [Atherosclerosis](#)
- [Autistic Disorder](#)
- [Autoimmune Diseases](#)
- [Cardiovascular Diseases](#)
- [Cerebrovascular Disorders](#)

- [Coronary Artery Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Lupus Erythematosus](#)
- [Metabolic Syndrome X](#)
- [Myocardial Infarction](#)
- [Neoplasms](#)
- [Opportunistic Infections](#)
- [Osteoporosis](#)
- [Recurrence](#)