

Mouse anti-Human Complement 4d (C4d) Monoclonal Antibody | anti-C4A antibody

Complement 4d (C4d) (Acute Humoral Rejection Marker) Mouse Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA214424	Mouse	Human	Immunohistochemistry, Immunofluorescence

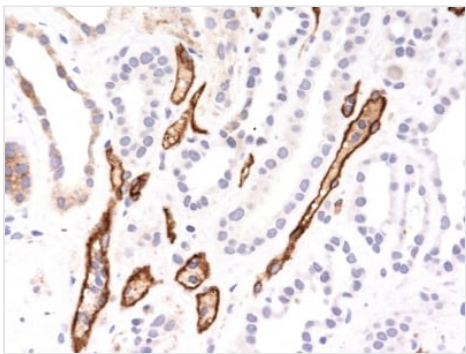
PRODUCT SYNONYMS

Complement 4d (C4d); Monoclonal Antibody; Complement 4d (C4d) (Acute Humoral Rejection Marker) Mouse Monoclonal Antibody; Acidic Complement C4; Basic C4; C4; C4-1; C4a Anaphylatoxin; C4A; C4A2; C4A3; C4A4; C4A6; C4b; C4B1; C4B12; C4d fragment; C4F; C4S; Complement C4 Gamma Chain; Complement Component 4A; Complement Component 4B; anti-C4A antibody

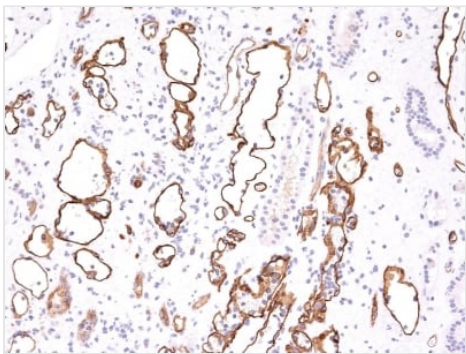
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	C4D204
Specificity	This MAb is specific to Complement 4d (C4d) and it reacts with the secreted as well as cell-bound C4d. C4d is a degradation product of the activated complement factor C4b. Complement 4b is typically activated by binding of Abs to specific target molecules. Following activation and degradation of the C4 molecule, thio-ester groups are exposed, which allow transient, covalent binding of the degradation product Complement 4d to endothelial cell surfaces and extracellular matrix components of vascular basement membranes near the sites of C4 activation. The presence of C4d in peritubular capillaries is a key indicator for acute humoral (i.e. antibody-mediated) rejection of kidney, heart, pancreas and lung allografts. As an established marker of antibody-mediated acute renal allograft rejection and its proclivity for endothelium, this component can be detected in peritubular capillaries in chronic renal allograft rejection as well as hyperacute rejection, acute vascular rejection, acute cellular rejection, and borderline rejection. It has been shown to be a significant predictor of transplant kidney graft survival. Anti-C4d, combined with anti-C3d, can be utilized as a tool for allograft rejection that may warrant a prompt and aggressive anti-rejection treatment.
Form/Format	Bioreactor Concentrate with 0.05% Azide.
Sequence Length	1744
Applicable Applications for anti-C4A antibody	IHC (Immunohistochemistry), IF (Immunofluorescence)
Cellular Localization	Intracytoplasmic vacuoles of endothelial cells and Secreted
Immunogen	Recombinant human Complement 4d protein
Hu-Chromosome Location	6p21.3
Positive Control	Rejected Renal Transplant Tissue
Preparation and Storage	Store at 2 to 8 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

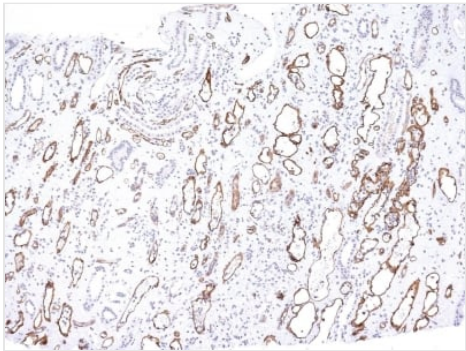
IMAGES



IHC (Immunohistochemisry)
Formalin-fixed, paraffin-embedded human Kidney Transplant tissue stained with Complement 4d Ab (C4D204).



IHC (Immunohiostchemistry)
Formalin-fixed, paraffin-embedded human Kidney Transplant stained with Complement 4d Ab (C4D204).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Kidney Transplant stained with Complement 4d Ab (C4D204).

ADDITIONAL INFORMATION

References	Collins AB et. al. J Am Soc Nephrol. 1999;10(10):2208-14. Racusen LC et. al. Am J Transplant. 2003;3(6):708-14. Sacks SH et. al. Curr Opin Nephrol Hypertens. 2002;11(6):627-8
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NCBI AND UNIPROT INFORMATION

NCBI GI #	178557739
NCBI GeneID	721
NCBI Accession #	NP_001002029.3
NCBI GenBank Nucleotide #	NM_001002029.3
UniProt Accession #	POC0L4; P01028; P78445; Q13160; Q13906; A6H8M8; A6NHJ5; A7E2V2; B0QZR6; B0V2C8; B2RUT6; B7ZVZ6; POC0L5
Molecular Weight	192kDa (predicted)
NCBI Official Full Name	complement C4-B preproprotein
NCBI Official Synonym Full Names	complement component 4B (Chido blood group)
NCBI Official Symbol	C4B
NCBI Official Synonym Symbols	CH; C4F; CO4; C4B1; C4B2; C4B3; C4B5; C4BD; C4B12; C4B_2; CPAMD3
NCBI Protein Information	complement C4-B
UniProt Protein Name	Complement C4-A

UniProt Gene Name	C4A
UniProt Synonym Gene Names	CO4; CPAMD2
UniProt Entry Name	CO4A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/complement-4d-c4d-antibody-clone-c4d204-immunohistochemistry-immunofluorescence-elisa/214424>