antibodies -online.com







Image



Overview

Quantity:	0.5 mL	
Target:	C4A (C4a)	
Reactivity:	Human	
Host:	Mouse	
Clonality:	Monoclonal	
Conjugate:	This C4A antibody is conjugated to CF®488A	
Application:	Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Coating (Coat), Staining Methods (StM)	

Product Details

Immunogen:	Recombinant human Complement 4d protein	
Clone:	C4D204	
Isotype:	IgG1 kappa	
Specificity:	This MAb is specific to Complement 4d (C4d) and 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 diagnosis of allograft rejection that may warrant a prompt and aggressive anti-rejection treatment.

Purification:

Purified by Protein A/G

Target Details

Target:	C4A (C4a)
Alternative Name:	C4A (C4a Products)
Molecular Weight:	192kDa (predicted)
Gene ID:	720, 721
Pathways:	Complement System

Application Details

Application Notes:

Positive Control: Rejected Renal Transplant Tissue.

Known Application: ELISA (For coating use Ab at 1-2 μ g/mL order Ab without BSA), Immunofluorescence (1:50-1:100),Immunohistochemistry (Formalin-fixed) (1:200-1:400 for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 1 mM EDTA, pH 7.5-8.5, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Restrictions:

For Research Use only

Handling

Concentration:	100 μg/mL	
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.	
Storage:	4 °C	
Storage Comment:	Antibody with azide - store at 4 to 8°C. Antibody is stable for 24 months. Non-hazardous. No	

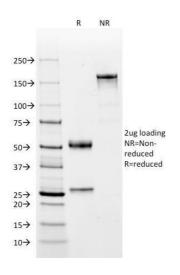
Handling

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Expiry Date:

24 months

Images



SDS-PAGE

Image 1. SDS-PAGE Analysis Purified Complement 4d Mouse Monoclonal Antibody (C4D204). Confirmation of Integrity and Purity of Antibody.