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36-3314: Anti-Complement 4d (C4d) (Acute Humoral Rejection Marker) Monoclonal Antibody(Clone: C4D204)-CF488

Clonality :	Monoclonal
Clone Name :	C4D204
Application :	ELISA,IF,IHC
Reactivity :	Human
Conjugate :	CF488
Gene :	C4A
Gene ID :	720; 721
Uniprot ID :	P00L4; P00L5
Alternative Name :	Acidic Complement C4; Basic 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
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Recombinant human Complement 4d protein

Description

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.

Product Info

Amount :	0.5 ml at 100µg/ml
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 4 to 8°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

ELISA (For coating use Ab at 1-2ug/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 heating tissue sections in 1mM EDTA, pH 7.5-8.5, for 45 min at 95&degC followed by cooling at RT for 20 minutes)

For Research Use Only. Not for use in diagnostic/therapeutics procedures.

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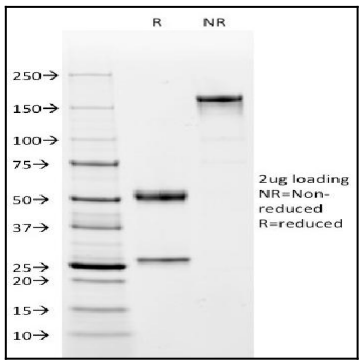


Fig. 1: SDS-PAGE Analysis Purified Complement 4d Mouse Monoclonal Antibody (C4D204). Confirmation of Integrity and Purity of Antibody.

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