

# Product Datasheet

## Complement C4b/d Antibody (C4D203)

### NBP2-44794-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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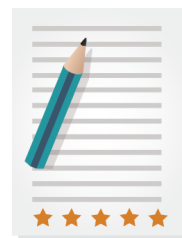
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**NBP2-44794-0.1mg**

Complement C4b/d Antibody (C4D203)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	C4D203
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Protein A or G purified
Buffer	10mM PBS and 0.05% BSA
Target Molecular Weight	192 kDa

Product Description	
Host	Mouse
Gene ID	721
Gene Symbol	C4B
Species	Human
Marker	Acute Humoral Rejection Marker
Specificity/Sensitivity	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 diagnosis of allograft rejection that may warrant a prompt and aggressive anti-rejection treatment.
Immunogen	Recombinant human Complement 4d protein

Product Application Details	
Applications	Immunofluorescence
Recommended Dilutions	Immunofluorescence 0.5 - 1.0 ug/ml
Application Notes	Hu-chromosome location: 6p21.3 Molecular weight of antigen: 192kDa (predicted)





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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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