

**Rabbit Anti-C4d [SP91]: RM0423, RM0423RTU7**

**Intended Use:** For Research Use Only

**Description:** Complement component 4, or C4, plays a central role in the complement system. C4d is the final proteolytic remnant of deposited C4b on endothelium and remains covalently attached to endothelium for little more than a week. It is easily detectable by Immunohistochemistry. This antibody combined with anti-C3d can be utilized as a tool for diagnosis of AR (Acute Rejection) and warrant prompt and aggressive anti-rejection treatment. C4d can be detected in peritubular capillaries in both 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 and is an aid in treating acute rejection.

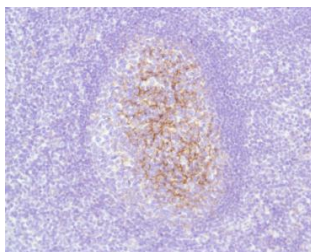
**Specifications**

Clone: SP91  
 Source: Rabbit  
 Isotype: IgG  
 Reactivity: Human  
 Localization: Intracytoplasmic vacuoles of endothelial cells, secreted  
 Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
 Storage: Store at 2°- 8°C  
 Applications: IHC  
 Package:

Description	Catalog No.	Size
C4d Concentrated	RM0423	1 ml
C4d Prediluted	RM0423RTU7	7 ml

**IHC Procedure**

Positive Control: Acute rejected kidney transplant  
 Concentrated Dilution: 25-100  
 Pretreatment: EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual  
 \* Result should be confirmed by an established diagnostic procedure.



FFPE human tonsil stained with anti-C4d using DAB

**References:**

1. Immunohistochemistry staining of C4d to diagnose antibody-mediated rejection in cardiac transplantation. Fedson SE et al. J Heart Lung Transplant 27:372-9, 2008.
2. Capillary deposition of the complement fragment C4d in cardiac allograft biopsies is associated with allograft vasculopathy. Fedson SE et al. Transplant Int. 18: 313-317, 2005.
3. Antibody-mediated rejectin in human cardiac allografts: Evaluatin of immunoglobulins and complement activation products C4d and C3d as markers. Rodriquez ER et al. Am J Transplantation 5: 2778-2785, 2005.
4. Immunoperoxidase staining for C4d on paraffin-embedded tissue in cardiac allograft endomyocardial biopsies. Chantranawat C et al. Appl immunohistochem Mol Morphol. 12: 166-171, 2004.

Doc. 100-RM0423

Rev. A

Orders: [customercare@medaysis.com](mailto:customercare@medaysis.com) Support: [techsupport@medaysis.com](mailto:techsupport@medaysis.com) Tel: 510-509-3153 [www.medaysis.com](http://www.medaysis.com)

© Medaysis Company