

Datasheet for ABIN6173841
anti-Complement C4d antibody



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3 Images

Overview

| | |
|--------------|--|
| Quantity: | 50 µL |
| Target: | Complement C4d (C4d) |
| Reactivity: | Human |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This Complement C4d antibody is un-conjugated |
| Application: | Immunofluorescence (IF), ELISA, Coating (Coat), Immunohistochemistry (Formalin-fixed Sections) (IHC (f)) |

Product Details

| | |
|------------------|--|
| Purpose: | Mouse Monoclonal anti-Complement C4d (C4D204), Purified, BSA-free |
| Immunogen: | Recombinant human Complement 4d protein |
| Clone: | C4D204 |
| Isotype: | IgG1 kappa |
| Characteristics: | 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 |

Product Details

(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. Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

Purification: Purified

Target Details

Target: Complement C4d (C4d)

Alternative Name: Complement C4d ([C4d Products](#))

Molecular Weight: 192 kDa (predicted)

Gene ID: 720, 721

Application Details

Application Notes: Immunohistology formalin-fixed 1:200-1:400

- Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 10-20 min followed by cooling at RT for 20 minutes
- Immunofluorescence 1:50-1:100
- ELISA For coating use Ab at 1-2 µg/mL, order Ab without BSA
- Optimal dilution for a specific application should be determined by user

Comment: Rejected Renal Transplant Tissue

Restrictions: For Research Use only

Handling

Format: Liquid

Handling

Concentration: 1 mg/mL

Buffer: PBS (no BSA, no azide)

Preservative: Azide free

Images

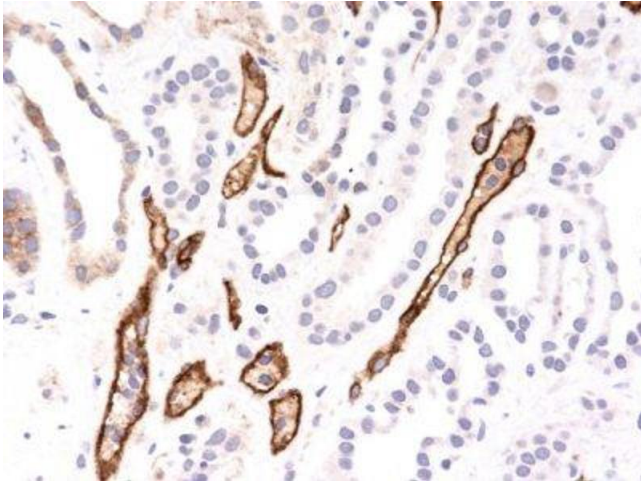


Image 1.

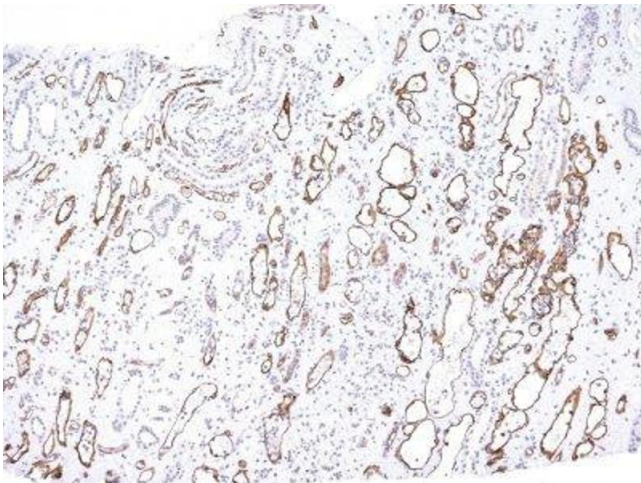


Image 2.

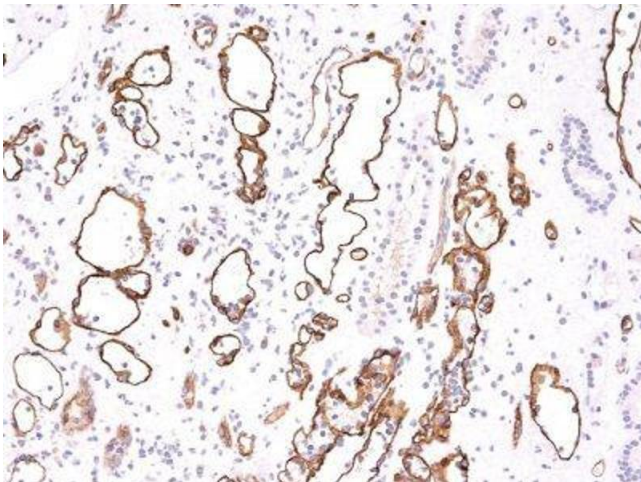


Image 3.