

C4d clone 10-11

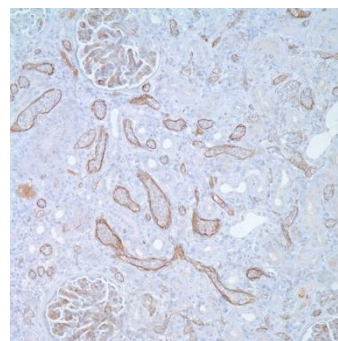
Instructions for Use

Specification:

C4d recognizes the secreted protein complement component 4d (C4d). The complement 1 complex cleaves complement 4 (C4) to form C4b and C4a. C4d levels are strictly regulated. Single site cleavage of the C4b's alpha chain by Factor 1 forms iC4b and blocks C3 convertase, inhibiting opsonisation and activation of the classical pathway. This requires C2 binding protein or CR1 as a cofactor. iC4b is further degraded into C4d and C4c. C4d's short half life means that C4d is present in serum at high enough concentrations to make it a useful marker for classical complement activation. C4 has been linked to susceptibility to systemic lupus erythematosus.

Availability:

Catalog No.	Contents	Volume
ILM800416-C01	C4d	0,1 ml concentrate
ILM800416-C05	C4d	0,5 ml concentrate
ILM800416-C1	C4d	1,0 ml concentrate



Intended use: For Research Use Only

Reactivity: Human

Clone: 10-11

Species of origin: Mouse

Isotype: IgG1

Control Tissue: Lymph node, tonsil, acutely rejected kidney

Staining: Membranous, cytoplasmic

Immunogen: Native, from human plasma

Presentation: C4d is a mouse monoclonal antibody from borate buffered saline, pH 8,4 and preserved with 0,09% Sodium Azide

Application and suggested dilutions:

It has been reported that this antibody works very well on acetone-fixed, frozen renal biopsies. Strong staining is observed in the glomeruli and in some cases the peritubular capillaries.

This product has given variable results on formalin-fixed, paraffin-embedded tissue. It has been observed that pre-treatment with 88% formic acid for 20 minutes at room temperature is beneficial.

- Immunohistochemical staining of cryostat tissue (dilution up to 1:50-1:100)
- Immunohistochemical staining of formalin-fixed, paraffin embedded tissue section (dilution: not detergent)
- ELISA (dilution up to 1:500-1:2000)
- Westernblotting
- Immunofluorescence (dilution up to 1:25-1:60)

The optimal dilution for a specific application should be determined by the investigator.

Note: Dilution of the antibody in 10% normal goat serum followed by a goat anti-mouse secondary antibody-based detection is recommended.

Storage & Stability: Store at 2-8 °C. Do not use after expiration date printed on the vial.

Reference:

- 1) Mauiyyedi, S. et al. (2002), J Am Soc Nephrol. 13: 779787.
- 2) Collins, A.B. et al. (1999), J Am Soc Nephrol. 10: 22082214.
- 3) Knechtle, S.J. et al (2003), Am J Transplant. 3: 722730.
- 4) Mauiyyedi, S. (2001), J Am Soc Nephrol. 12: 574582.
- 5) Rogers, J. et al. (1992), PNAS 89:1001610020.
- 6) Troxell, M.L. et al. (2010), Transplantation. 90: 7584.