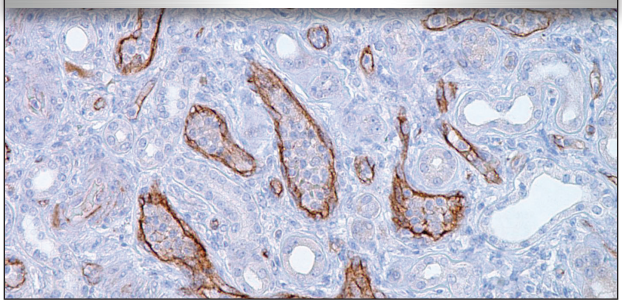
# TRANSPLANTATION?

## *Cell Marque C4d, C3d, CMV, and SV-40 Immunohistochemistry*

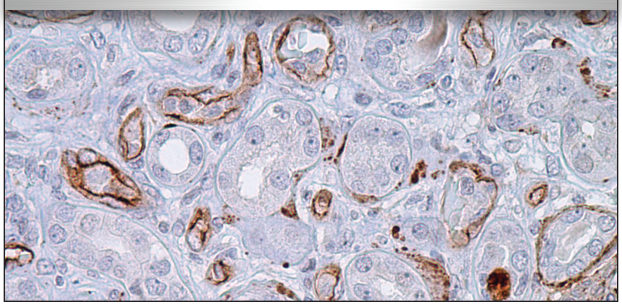
Rev. 0.2

The immunohistochemical detection of the complement degradation products anti-C4d and anti-C3d in allograft biopsies of various organs has gained considerable clinical interest in recent years. The accumulation of C4d and C3d along renal peritubular capillaries, myocardial capillaries, and hepatic vascular and sinusoidal walls in transplanted tissue is generally regarded as an indication of an antibody-mediated allo-response and is associated with poor graft survival. While immunofluorescence testing of C4d and C3d has existed for years, the demand for permanent, light microscope-compatible IHC testing on formalin-fixed, paraffin-embedded tissues has continued to grow. Such IHC testing allows all stained slides to be permanently archived for future reference. This demand has also been fueled by the fact that testing with these humoral rejection markers is also often accompanied by immunohistochemical testing of viral markers, such as anti-cytomegalovirus (CMV) and anti-simian vacuolating virus-40 (SV-40 polyomavirus). In response to such demands, Cell Marque is the *first and only* diagnostic company in the US market to offer both C4d and C3d as IVD antibodies and CMV and SV-40 as ASR antibodies for immunohistochemical use on formalin-fixed, paraffin-embedded tissues.

*C4d (polyclonal) on kidney, 200x*



*C3d (polyclonal) on kidney, 400x*



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a SIGMA-ALDRICH company • Toll-Free: 800.665.7284 • Direct: 916.746.8900 • service@cellmarque.com • www.cellmarque.com