

Transplantation

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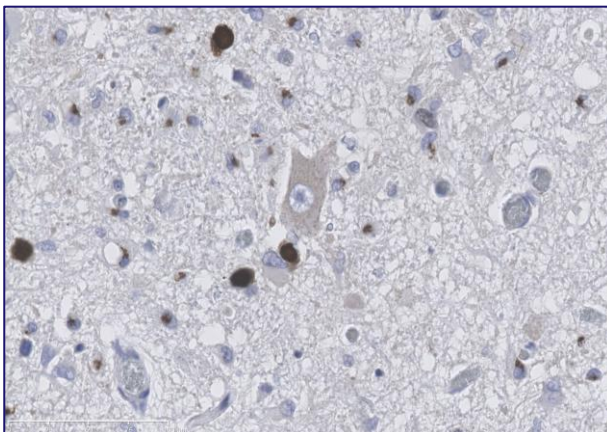
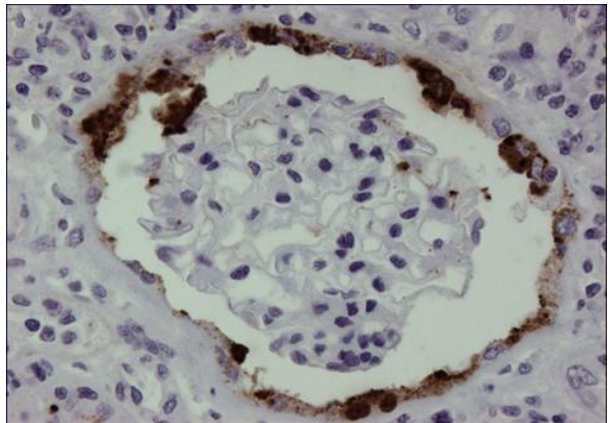
Monoclonal antibody against Polyomavirus

Special features

- Antibody which specifically detects polyomavirus
- Very suitable for immunohistochemistry analysis

IQ Products' monoclonal antibody against polyomavirus allows:

**Immunohistochemistry analysis of
BK polyomavirus infected kidney**



**Immunohistochemistry analysis of
JC polyomavirus infected brain**

Background information

Human polyomaviruses are non-enveloped DNA viruses and the members BK virus (BKV) and JC virus (JCV) are very common in the human population. The DNA of BKV and JCV exhibit large homology ^[1]. For BKV, most persons are seropositive at 5 years old, while for JCV, most persons become seropositive by the age of 10. By adulthood, 70-90% of individuals have antibodies to both JCV and BKV. Antibody titers persist throughout life.

BK maintains as a latent infection in the kidney and urinary tract and can be reactivated from time to time ^[2]. Virus reactivation can occur especially in immunocompromised individuals, like AIDS patients and transplant patients, and JC virus has been recognized as the cause of progressive multifocal leukoencephalopathy, while BK virus-associated interstitial nephritis and especially PolyomaVirus-Associated Nephropathy (PVAN) have become an emerging complication affecting 1-10% of all renal transplant patients ^[3].

PVAN affects renal allograft with a prevalence of 1-9% on average 8-13 months post-surgery and has poor prognosis ^[2,3]. Prognosis is improved by early reduction of immunosuppression, while also cidofovir or leflunomide use might have beneficial effects ^[4,5]. PVAN is morphologically defined by the presence of intranuclear viral inclusion bodies in epithelial cells and tubular injury, which is the morphological correlate for renal dysfunction.

References:

1. *Journal of Clinical Virology; Volume 34, Issue 1, Sept 2005, p52-62*
2. <http://virology-online.com/viruses/polyomaviruses.htm>
3. *Transpl Int. 2006 Dec;19(12):960-73*
4. *Rev Med Liege. 2005 Oct; 60(10):775-82*
5. *Transplantation. 2008 Apr 15;85(7 Suppl):S42-8*

Application

This antibody recognizes polyomavirus infection and can be used for analysis of paraffin embedded sections of JC infected brain or BK infected kidney.

Available from IQ Products			
Item	Clone	Applications	Product Code
Monoclonal antibody against polyomavirus	3B2	Immunohistochemistry analysis of paraffin embedded sections of JC infected brain or BK infected kidney.	IQP-562P