Anti-BK virus (Human polyomavirus 1) agnoprotein antibody, mouse monoclonal (BKAG-01)

Product code	65-392
Size	100 μg
Storage	-20℃
Concentration	1.0 mg/ml
Buffer	PBS(-) with 50% glycerol
Purity	Purified IgG fraction with protein A from hybridoma cell culture medium
Immunogen	KLH-synthetic agnoprotein peptide (amino acids 1-66) of BK virus (BKV)
Isotype	mouse IgG2a κ
Reactivity	Reacts with the BKV agnoprotein
Validation	Specificity has been validated by western blotting
Application	1.Western blotting: x1/200-400 (Fig.1) 2.Immunofluorescence: x1/200-400 (Fig.2)
Background	The human polyomavirus BK (BKV), known as human polyomavirus 1, is a small non-enveloped virus with a circular double-stranded DNA genome. BKV was first isolated from an immunosuppressed kidney transplant recipient, and is among the few clinically important human polyomaviruses, including JC polyomavirus (JCV) and Merkel cell polyomavirus. BKV genome encodes the capsid proteins VP1 to VP3 and the three regulatory proteins, large and small tumor-antigen and the agnoprotein. Agnoprotein is conserved among BKV, JCV and SV40 and is a late cytoplasmic protein which has a molecular weight 8kDa (66 a.a.) polypeptide. Agnoproteins may be involved in transcription, replication and/or nuclear and cellular release of the virus.
Data Link	UniProtKB : P03085 (AGNO_POVBK)

Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.

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Data Images: 65-392 Anti-BK virus (Human polyomavirus 1) agnoprotein antibody, mouse monoclonal (BKAG-01)

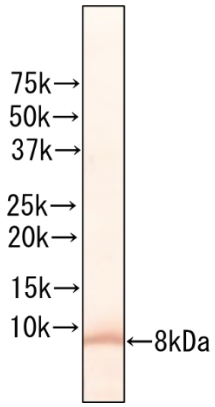

Fig.1. Identification of protein in BKV by Western blotting (WB) using monoclonal antibody (MAb)
The virus purified from the culture supernatant of infected cells was applied to SDS-PAGE. The MAb was used at 1/ 200 dilution. The HRP-conjugated goat anti-mouse IgG was used at 1/2,000 as the second antibody. and visualized by DAB (3,3'-Diaminobenzidine). A 8kDa band was identified as BKV agnoprotein.

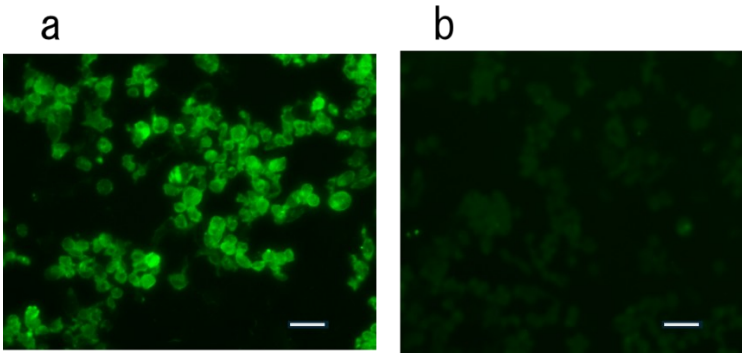

Fig.2. Detection of BKV agnoprotein infected in cells by immunofluorescence staining
Vero cells infected with BKV (a) and uninfected Vero cells (b) on a slide glass were fixed with ethanol. The MAb was used at 1/200 dilution. As the second antibody, FITC-conjugated rabbit anti-mouse IgG was used at 1/ 2,000 dilution. Bar maker represents 20μm.

References This antibody has not yet been used in publication.

Related product: 65-390 Anti-BK virus (Human polyomavirus 1) major capsid protein (VP1) antibody, mouse monoclonal (BKV1-01)

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