Viral HHV8-ORF74 APC-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 462510

Catalog Number: FAB5264A

100 Tests

DESCRIPTION

Species Reactivity	Viral
Specificity	Detects viral HHV8-ORF74 in flow cytometry.
Source	Monoclonal Mouse IgG_{2B} Clone # 462510
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with viral HHV8-ORF74 Met1-Thr342 Accession # AAB51506
Conjugate	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

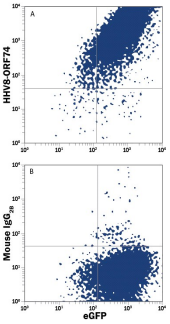
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Flow Cytometry	10 µL/10^6 cells	See Below

DATA

Flow Cytometry



Detection of HHV8-ORF74 in HEK293 Human Cell Line Transfected with Viral HHV8-ORF74 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with viral HHV8-ORF74 and eGFP was stained with either (A) Mouse Anti-Viral HHV8-ORF74 APC-conjugated Monoclonal Antibody (Catalog # FAB5264A) or (B) Mouse IgG_{2B} Allophycocyanin Isotype Control (Catalog # IC0041A). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

The herpes family represents about 130-140 double-stranded DNA viruses that infect almost all phyla in the animal kingdom. HHV8 (Human Herpes Virus-8) is one of eight herpes viruses known to infect humans. These eight viruses are categorized into three classes: α (HHV1-3 that infect neurons), β (HHV5-7) and γ (HHV4 and 8 that lie latent in B cells). HHV8 contains about 100 genes/ORFs, including viral homologues for MIP (vMIP), Bcl-2, IL-6, NCAM and IL-8 R2. HHV8-ORF74 is a homolog of IL-8 R2, and when expressed shows a 44-46 kDa G-protein coupled receptor that belongs to the rhodopsin/β-adrenergic family of GCPRs. Unlike IL-8 R2, HHV8-ORF74 is constitutively active. Its activity is regulated by multiple chemokines that can either upregulate basal activity (IL-8; GRO-α), downregulate basal activity (IP-10; vMIP-II; SFD-1) or leave activity untouched (NAP-2; ENA-78), acting instead as a blocking factor. HHV8-ORF74 activation on infected endothelial cells appears to drive them into a spindle-shape, characteristic of that seen in Kaposi's sarcoma, and induces the expression of multiple proangiogenic molecules such as IL-6, IL-8, ICAM-1, VCAM-1 and VEGF plus VEGF R2. These effects appear to be necessary, but not necessarily sufficient, for Kaposi's sarcoma development. The ORF74 GPCR shares 29% and 27% amino acid sequence identity with human CXCR2 and CXCR1, respectively.

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