

AM06086SU-N**Monoclonal Antibody to Herpes Virus Type 8 / HHV8 ORF45 - Ascites****Alternate names:** KSHV ORF45**Quantity:** 0.1 ml

Background: Kaposi's sarcoma-associated herpesvirus (KSHV) belongs to the gamma-(2)-herpesvirus subfamily and has been closely linked to the Kaposi's sarcoma, primary effusion lymphoma (PEL) and multicentric Castleman's disease. The genome of KSHV is 165-170 kb and contains at least 88 open reading frames. ORF45 protein encoded by an immediate-early gene in the KSHV genome is characterized as a phosphorylated protein, and it is localized in the cytoplasm of infected cells. Studies have shown that ORF45 Protein interacted with cellular IRF-7 and blocked virus-mediated phosphorylation and nuclear translocation of IRF-7. In consequence, ORF45 efficiently inhibited virus-induced production of type I IFN. Zhu et al (2003) reported that the ORF45 Protein was associated with purified virions

Uniprot ID: [Q2HR88](#)**NCBI:** [YP_001129397.1](#)**GenelD:** [4961474](#)**Host / Isotype:** Mouse / IgG1**Clone:** 2D4A5**Immunogen:** Purified recombinant fragment of KSHV ORF45 expressed in E. Coli.**Format:** **State:** Ascitic fluid**Preservatives:** 0.03% Sodium Azide**Applications:** **ELISA:** 1/10000.**Western Blot:** 1/500 - 1/2000.**Immunofluorescence:** 1/200 - 1/1000.**Immunohistochemistry:** 1/200 - 1/1000.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody recognizes KSHV ORF45**Storage:** Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

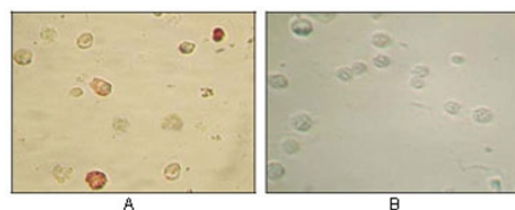
General Readings:

1. Chang Y, Cesarman E, Pessin MS, Lee F, Culpepper J, Knowles DM, et al. Identification of herpesvirus-like DNA sequences in AIDS-associated Kaposi's sarcoma. Science. 1994 Dec 16;266(5192):1865-9. PubMed PMID: 7997879.
2. Zhu FX, King SM, Smith EJ, Levy DE, Yuan Y. A Kaposi's sarcoma-associated herpesviral protein inhibits virus-mediated induction of type I interferon by blocking

IRF-7 phosphorylation and nuclear accumulation. Proc Natl Acad Sci U S A. 2002 Apr 16;99(8):5573-8. Epub 2002 Apr 9. PubMed PMID: 11943871.
3. Zhu FX. et al. J Virol. 2003. April (77): 4221-4230.

Pictures:

Immunocytochemistry analysis of TPA induced BCBL-1 cells (A) and uninduced BCBL-1 cells (B) using KSHV ORF45 antibody AM06086SU-N with AEC staining.



Western blot analysis using KSHV ORF45 antibody AM06086SU-N against KSHV ORF45 recombinant protein.

