

KSHV ORF62 Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1017a

Product Information

Application	WB, IHC, E
Primary Accession	F5H8Y5
Host	Mouse
Clonality	Monoclonal
Clone Names	5B7B6
Isotype	IgM
Calculated MW	36336
Description	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. At least five major proteins are likely to be involved in the assembly of the HHV-8 capsid, including a protease (encoded by ORF17), the major capsid protein (encoded by ORF25), and three other smaller capsid proteins (encoded by ORF62, ORF26, and ORF65). Previous structural studies have shown that the HSV-1 triplex is a monomer of VP19c and a dimer of VP23 and that the HCMV triplex is similarly composed of a monomer and a dimer. By analogy, the KSHV triplexes are likely also composed of a monomer of the ORF62 protein and a dimer of the ORF26 protein, which are the respective homologs of VP19c and VP23.
Immunogen	Purified recombinant fragment of human KSHV ORF62 expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	4961461
Other Names	Triplex capsid protein VP19C homolog, ORF62
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	KSHV ORF62 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TRX1 {ECO:0000255 HAMAP-Rule:MF_04018}
Function	Structural component of the T=16 icosahedral capsid. The capsid is composed of pentamers and hexamers of major capsid protein/MCP, which are linked together by heterotrimers called triplexes. These triplexes are formed by a single molecule of triplex protein 1/TRX1 and two copies of triplex protein 2/TRX2. Additionally, TRX1 is required for efficient transport of TRX2 to the nucleus, which is the site of capsid assembly.
Cellular Location	Virion {ECO:0000255 HAMAP-Rule:MF_04018}. Host nucleus {ECO:0000255 HAMAP-Rule:MF_04018}

References

1. Chang Y. et al. 1994. Science. 266:1865-1869. 2. Russo J.J. et al. 1996. PNAS. 93: 14862-14867. 3. Wu L. et al. 2000. J VirolOct; 74(20):9646-54.

Images

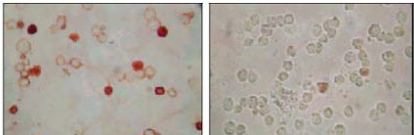


Figure 1: Immunocytochemistry analysis of TPA induced BCBL-1 cells (A) and uninduced BCBL-1 cells (B) using KSHV ORF62 mouse mAb with AEC staining.

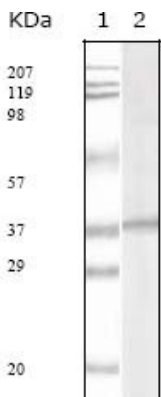


Figure 2: Western blot analysis using KSHV ORF62 mouse mAb against KSHV ORF62 recombinant protein.

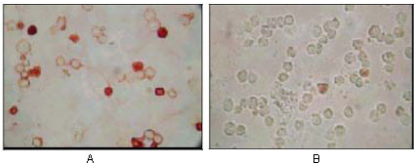


Figure 1: Immunocytochemistry analysis of TPA induced BCBL-1 cells(A) and uninduced BCBL-1 cells(B) using anti-KSHV ORF62 monoclonal antibody with AEC staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.