

KSHV ORF8 Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1038a

Product Information

Application	WB, E
Primary Accession	F5HB81
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	N/A
Calculated MW	93985
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. KSHV ORF8 is a virion envelope-associated protein. Akula et al (2003) report it acts as a Glycoprotein B mediated signaling during virus entry. This Glycoprotein possesses the Arg-Gly-Asp (RGD) motif and utilizes alpha3beta1 integrin as one of the receptors for its entry into the target cells.
Immunogen	Synthetic peptide, corresponding to amino acids sequence of KSHV ORF8.
Formulation	Rabbit anti-serum.

Additional Information

Gene ID	4961501
Other Names	Envelope glycoprotein B, gB, ORF8
Dilution	WB~~1/500 - 1/2000 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 ORF8 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	gB {ECO:0000255 HAMAP-Rule:MF_04032}
Synonyms	ORF8

Function	Envelope glycoprotein that forms spikes at the surface of the virion envelope. Participates in viral entry through an RGD motif that binds ITGAV-ITGB3. Membrane fusion is mediated by the fusion machinery composed at least of gB and the heterodimer gH/gL. May be involved in the fusion between the virion envelope and the outer nuclear membrane during virion egress.
Cellular Location	Virion membrane {ECO:0000255 HAMAP- Rule:MF_04032}; Single-pass type I membrane protein {ECO:0000255 HAMAP- Rule:MF_04032}. Host cell membrane {ECO:0000255 HAMAP-Rule:MF_04032}; Single-pass type I membrane protein {ECO:0000255 HAMAP-Rule:MF_04032} Host endosome membrane {ECO:0000255 HAMAP-Rule:MF_04032}; Single-pass type I membrane protein {ECO:0000255 HAMAP-Rule:MF_04032}. Host Golgi apparatus membrane {ECO:0000255 HAMAP-Rule:MF_04032}; Single-pass type I membrane protein {ECO:0000255 HAMAP-Rule:MF_04032}. Note=During virion morphogenesis, this protein probably accumulates in the endosomes and trans-Golgi where secondary envelopment occurs. It is probably transported to the cell surface from where it is endocytosed and directed to the trans-Golgi network (TGN). {ECO:0000255 HAMAP-Rule:MF_04032}

References

1. James J. Proc. Natl. Acad. Sci Vol. 1993, pp. 14862-14867. 2. Wang FZ. J Virol. 2003 Mar; 77(5):3131-47.

Images

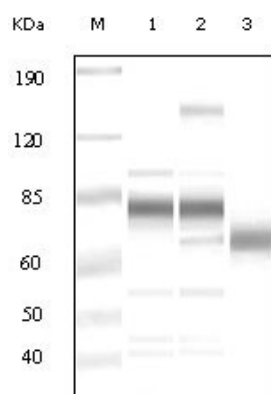


Figure 1: Western blot analysis using anti-KSHV ORF8 polyclonal antibody against uninduced BCBL1 cell lysate (1), TPA induced BCBL1 cell lysate(2) and purified virion (3).

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