BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-KSHV ORF57 Antibody

Catalog Number: A19763

About ORF57

This antibody is suitable for Cancer, Immunology and Nuclear Signaling research. ORF57 (also known as MTA), one of the earliest Kaposi's sarcoma-associated herpesvirus (KSHV) regulatory proteins to be expressed, is essential for virus lytic replication. A counterpart is present in every herpesvirus sequenced, indicating the importance of this signature viral protein, and those examined act post-transcriptionally, affecting RNA splicing and transport. KSHV ORF57 is capable of establishing both lytic and latent replication cycles. In KS, the virus localizes to tumor progenitor endothelial cells, most of which are latently infected. In cell culture, KSHV replication is generally studied using B-cell lines, such as BCBL-1, generated from primary effusion lymphoma material. Most BCBL-1 cells are latently infected, although there is some spontaneous virus reactivation. Addition of chemical inducers such as sodium n-butyrate, 12-O-tetradecanoylphorbol-13-acetate (TPA), and valproic acid (VA) to these cells efficiently induces the lytic cycle and produces virions. KSHV ORF57 protein predominantly localizes to the nucleus and can shuttle between the nucleus and cytoplasm. Most HSV-1 genes are unspliced; by contrast, ORF57 is spliced gene; the protein is 455 amino acids in length and 50kDa in size.

Overview

Product Name	Anti-KSHV ORF57 Antibody
Reactive Species	Human
Description	Boster Bio Anti-KSHV ORF57 Antibody (Catalog # A19763). Tested in ELISA, WB applications. This antibody reacts with Human.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	Store vial at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	Q2HR75

Technical Details

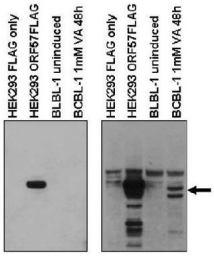
Immunogen	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a region near the C-terminal of human KSHV ORF57 protein.
Predicted Reactive Species	Chimpanzee, Drosophila, Macaque

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Isotype	IgG
Form	Liquid (sterile filtered)
Concentration	1.55 mg/mL by UV absorbance at 280 nm
Purification	This affinity purified antibody is directed against human herpesvirus 8 (KSHV ORF57) protein. The product was affinity purified from monospecific antiserum by immunoaffinity chromatography. A BLAST analysis was used to suggest cross-reactivity with ORF57 protein from human herpesvirus 8 types P and M sources based on 94% homology with the immunizing sequence. Reactivity against homologues from other sources is unknown.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: ELISA: 1:100,000 - 170,000 IHC: User optimized WB: 1:5,000 - 1:8,000

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-KSHV ORF57 Antibody (A19763) Images



Western blot using rabbit anti-KSHV ORF57 affinity purified polyclonal antibody (Catalog # A19763) in HEK293 cells transfected with ORF57 expression vector and ORF57 truncations, or in KSHV infected B-cell line (BCBL-1) treated with or without valproic acid to induce viral replication (arrow). The membrane was probed with the primary antibody diluted 1:7,500 (left) and 1:1,000 (right). Personal Communication, V. Majerciak, M.Zheng, CCR-NCI, Bethesda, MD.

1 Publications Citing This Product

1. PubMed ID: 10.1128/JVI.01812-18, HACE1, an E3 Ubiquitin Protein Ligase, Mitigates Kaposi's Sarcoma-Associated Herpesvirus Infection-Induced Oxidative Stress by Promoting Nrf2 Activity

Visit bosterbio.com/anti-kshv-orf57-antibody-a19763-boster.html to see all 1 publications.

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a $20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.