

Product datasheet

Anti-KSHV ORF45 antibody [2D4A5] ab36618

[6 References](#) [2 Images](#)

Overview

Product name	Anti-KSHV ORF45 antibody [2D4A5]
Description	Mouse monoclonal [2D4A5] to KSHV ORF45
Host species	Mouse
Tested applications	Suitable for: WB, ICC, ELISA
Species reactivity	Reacts with: Human herpesvirus 8
Immunogen	Ni-NTA purified recombinant human KSHV ORF45 expressed in E. Coli strain BL21 (DE3).
Positive control	TPA induced BCBL-1 cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.05% Sodium azide Constituent: PBS
Purity	Protein G purified
Purification notes	Purified from tissue culture supernatant.
Clonality	Monoclonal
Clone number	2D4A5
Isotype	IgG1

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab36618 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/2000. Detects a band of approximately 78 kDa (predicted molecular weight: 50 kDa).
ICC		1/200 - 1/1000.
ELISA		1/10000.

Target

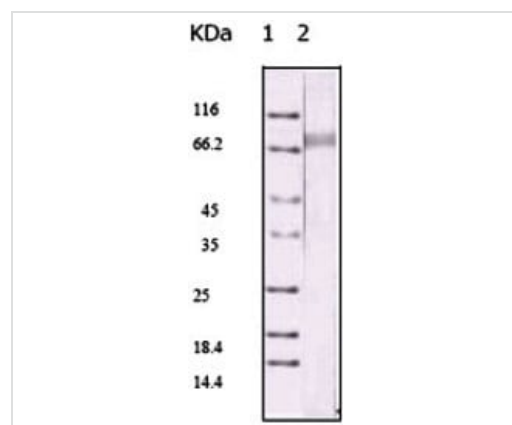
Relevance

Kaposi's sarcoma-associated herpes virus (KSHV) belongs to the gamma-herpesvirus subfamily of the Herpes viridae family and has been closely linked to the Kaposi's sarcoma, primary effusion lymphoma (PEL) and multicentric Castlemann'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.

Cellular localization

Not applicable

Images



Western blot - Anti-KSHV ORF45 antibody [2D4A5] (ab36618)

All lanes : Anti-KSHV ORF45 antibody [2D4A5] (ab36618)

Lane 1 : Molecular weight marker

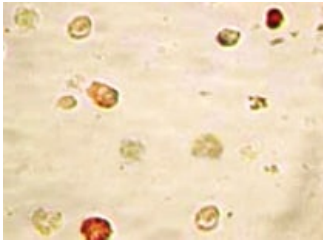
Lane 2 : Recombinant KSHV ORF45 expressed in E.coli

Predicted band size: 50 kDa

Observed band size: 78 kDa

Based on the analysis of the mRNA sequence, ORF45 is expected to encode a protein of 407 amino acids with a molecular mass of about 50 kDa. However, ORF45 was displayed as a diffuse band at the position of 78 kDa on a Western blot after SDS-PAGE. This observation implied that ORF45 might be highly post-translationally modified, resulting in its reduced mobility in denaturing SDS-PAGE. A survey of the primary amino acid sequence of ORF45 revealed multiple potential sites of phosphorylation, including a serine-rich

region and other consensus sites for phosphorylation by the serine/threonine kinase, casein kinase II, and protein kinase C (Zhu & Yuan, 2003).



Immunocytochemistry staining of TPA-induced BCBL-1 cells, using ab36618. HRP-anti-mouse was used as the secondary antibody before colour development with DAB.

Immunocytochemistry - Anti-KSHV ORF45 antibody
[2D4A5] (ab36618)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors