

Product Datasheet

LANA2 Antibody (CM-A807) - BSA Free NB200-167

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NB200-167

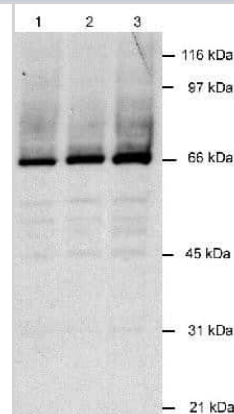
LANA2 Antibody (CM-A807) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	2.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	CM-A807
Preservative	0.1% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS
Product Description	
Host	Mouse
Species	Human, Mouse, Virus
Reactivity Notes	Reacts with viral LANA2 protein and shows no cross-reactivity to cellular proteins. Also reacts with human and mouse viral KSHV proteins.
Specificity/Sensitivity	This is specific for KSHV LANA2 (residues 143-310 epitope recognition).
Immunogen	Recombinant LANA2 fusion protein.
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, Knockout Validated
Recommended Dilutions	Western Blot 2-4 ug/ml, ELISA 1:100-1:2000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500, Knockout Validated reported in scientific literature (Golas et al)
Application Notes	By Western Blot, this antibody recognizes a viral protein in KSHV infected B-cells (~66-70 kDa).

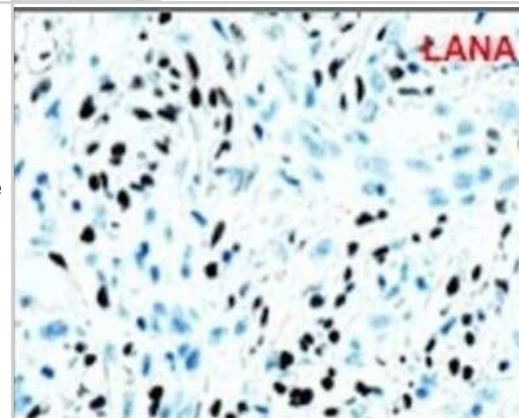


Images

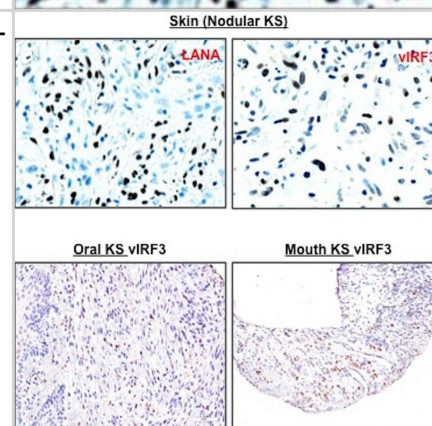
Western Blot: LANA2 Antibody (CM-A807) [NB200-167] - Detection of LANA2 in infected lysates (30 ug) using 2 ug/ml of NB 200-167. ECL detection 1.5 minutes. Lane 1: BCBL-1 (KSHV+) Lane 2: BC-1 (KSHV+/EBV+) Lane 3: BCP-1 (KSHV+)



Immunohistochemistry-Paraffin: LANA2 Antibody (CM-A807) [NB200-167] - vIRF3 expression in KS tissues. We obtained KS tissue microarrays from AIDS Cancer Specimen Resource and performed immunohistochemistry, visualized by Aperio F.L. digital pathological scanning. A biopsy sample of KS TMA was stained with anti-LANA. Representative image shows the LANA staining of skin KS lesion. Image collected and cropped by CiteAb from the following publication (<https://mbio.asm.org/lookup/doi/10.1128/mBio.02217-17>), licensed under a CC-BY license.



Immunohistochemistry: LANA2 Antibody (CM-A807) - BSA Free [NB200-167] - vIRF3 expression in KS tissues. We obtained KS tissue microarrays from AIDS Cancer Specimen Resource & performed immunohistochemistry, visualized by Aperio F.L. digital pathological scanning. A biopsy sample of KS TMA was stained with anti-LANA & anti-vIRF3 (CM-A807). Representative images show the LANA staining of skin KS lesion & the vIRF3 staining of skin, tonsil, & mouth KS lesions & positive staining corresponding to either LANA or vIRF3 in total KS biopsy specimens embedded in TMA. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/29339432>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Choi UY, Lee JJ, Park A et al. Herpesvirus-induced spermidine synthesis and eIF5A hypusination for viral episomal maintenance Cell reports 2022-08-16 [PMID: 35977517] (WB, Human)

Golas G, Jang S, Naik N, et al. Comparative analysis of the viral interferon regulatory factors of KSHV for their requisite for virus production and inhibition of the type I interferon pathway Virology 2020-02-15 [PMID: 32056714]

Moodad S, El Hajj R, Hleihel R et al Lenalidomide in Combination with Arsenic Trioxide: an Effective Therapy for Primary Effusion Lymphoma Cancers (Basel) 2020-09-05 [PMID: 32883022] (WB)

Details:

Citation using the HRP version of this antibody.

Chen J, Dai L, Goldstein A et al. Identification of new antiviral agents against Kaposi's sarcoma-associated herpesvirus (KSHV) by high-throughput drug screening reveals the role of histamine-related signaling in promoting viral lytic reactivation PLoS Pathog. 2019-12-01 [PMID: 31790497] (WB)

Xiang Q, Ju H, Li Q et al. Human Herpesvirus 8 Interferon Regulatory Factors 1 and 3 Mediate Replication and Latency Activities via Interactions with USP7 Deubiquitinase J. Virol. 2018-01-17 [PMID: 29343584] (WB)

Lee HR, Li F, Choi UY et al. Deregulation of HDAC5 by Viral Interferon Regulatory Factor 3 Plays an Essential Role in Kaposi's Sarcoma-Associated Herpesvirus-Induced Lymphangiogenesis MBio 2018-01-16 [PMID: 29339432] (Virus)

Sarek G, Jarviluoma A, Moore HM et al. Nucleophosmin phosphorylation by v-cyclin-CDK6 controls KSHV latency PLoS Pathog. 2010-03-19 [PMID: 20333249] (WB, Virus)

Liang Q, Chang B, Lee P et al. Identification of the essential role of vBcl2 for KSHV lytic replication J. Virol. 2015-03-04 [PMID: 25740994] (WB)

Zuo J, Hislop AD, Leung C et al. KSHV encoded vIRF3 modulates MHC-II antigen presentation through CIITA dependent and independent mechanisms: implications for oncogenesis. J Virol 2013-02-28 [PMID: 23449805] (WB, Human)

Marcos-Villar L, Gallego P, Munoz-Fontela C et al. Kaposi's sarcoma-associated herpesvirus lana2 protein interacts with the pocket proteins and inhibits their sumoylation. Oncogene 2013-01-14 [PMID: 23318443] (WB, Human)

Marcos-Villar L, Lopitz-Otsoa F, Gallego P et al. Kaposi's Sarcoma-Associated Herpesvirus Protein LANA2 Disrupts PML Oncogenic Domains Inhibits PML-Mediated Transcriptional Repression of the Survivin Gene. J Virol;83 (17):8849-8858. 2009-01-01 [PMID: 19553342]

Marcos-Villar L, Campagna M, Lopitz-Otsoa F, Gallego P, Gonzalez-Santamaria J, Gonzalez D, Rodriguez MS, Rivas C. Covalent modification by SUMO is required for efficient disruption of PML oncogenic domains by Kaposi's sarcoma-associated herpesvirus latent protein LANA2. J Gen Virol;92(Pt 1):188-94. 2011-01-01 [PMID: 20881090] (WB, Human)

More publications at <http://www.novusbio.com/NB200-167>



Procedures

Serum protocol for LANA2 Antibody (NB200-167)

Western Blot Protocol

1. Perform SDS-PAGE (4-12%) on samples to be analyzed, loading 30ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Stain the blot using ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% non-fat dry milk in TBS for 1 hour.
6. Dilute the mouse anti-LANA2 primary antibody (NB 200-167) in blocking buffer and incubate 2 hours at room temperature.
7. Wash the membrane in water for 5 minutes and apply the diluted mouse-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
8. Wash the blot in TBS containing 0.05-0.1% Tween-20 for 10-20 minutes.
9. Wash the blot in type I water for an additional 10-20 minutes (this step can be repeated as required to reduce background).
10. Apply the detection reagent of choice in accordance with the manufacturers instructions (Amersham's ECL is the standard reagent used at Novus Biologicals).

Note: Tween-20 can be added to the blocking buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.





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Products Related to NB200-167

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NB200-167H	LANA2 Antibody (CM-A807) [HRP]

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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