HHV-8 K8.1A/B (4A4): sc-65446

BACKGROUND
HHV-8, also designated Kaposi’s sarcoma-associated herpesvirus, is associated with multicentric Castleman’s disease and primary effusion lymphoma, a rare type of non-Hodgkin lymphoma affecting the body cavities. The HHV-8 K8.1 gene encodes for two immunogenic/lytic glycoproteins that are generated by a splicing event: K8.1A and K8.1B. K8.1A is the predominant form associated with the virion envelope and is comprised of 228 residues. This protein consists of a cleavable signal sequence, a transmembrane domain, O-glycosylation sites and four N-glycosylation sites. Evidence suggests that K8.1A interacts with heparan sulfate (HS) molecules on the surface of target cells and could mediate HHV-8 interaction with HS. The K8.1B glycoprotein has 167 residues, is similar in sequence to K8.1A but it contains a 61 residue in frame deletion. In addition, K8.1B has only three N-glycosylation sites and lacks O-glycosylation sites.

SOURCE
HHV-8 K8.1A/B (4A4) is a mouse monoclonal antibody raised against HHV-8 K8.1A and B.

PRODUCT
Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

HHV-8 K8.1A/B (4A4) is available conjugated to agarose (sc-65446 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-65446 HRP), 200 µg/ml for WB, IF and ELISA; to either phycoerythrin (sc-65446 PE), fluorescein (sc-65446 FITC), Alexa Fluor® 488 (sc-65446 AF488), Alexa Fluor® 546 (sc-65446 AF546), Alexa Fluor® 594 (sc-65446 AF594) or Alexa Fluor® 647 (sc-65446 AF647), 200 µg/ml for WB (RGB), IF, IHC and FCM; and to either Alexa Fluor® 680 (sc-65446 AF680) or Alexa Fluor® 790 (sc-65446 AF790), 200 µg/ml for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS
HHV-8 K8.1A/B (4A4) is recommended for detection of HHV-8 K8.1A and HHV-8 K8.1B of viral origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:200).

Molecular Weight of HHV-8 K8.1A/B: 62/54 kDa.

RECOMMENDED SUPPORT REAGENTS
To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

STORAGE
Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

SELECT PRODUCT CITATIONS

RESEARCH USE
For research use only, not for use in diagnostic procedures.

Santa Cruz Biotechnology, Inc. 1.800.457.3801 831.457.3800 fax 831.457.3801 Europe +00800 4573 8000 49 6221 4503 0 www.scbt.com