

Datasheet for ABIN2452012
anti-HHV6 gQ1 (AA 3-422) antibody



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Overview

Quantity:	50 µg
Target:	HHV6 gQ1
Binding Specificity:	AA 3-422
Reactivity:	Human Herpesvirus 6 (HHV-6)
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	Un-conjugated
Application:	Immunochromatography (IC), Flow Cytometry (FACS), Immunofluorescence (IF), Immunoprecipitation (IP), ELISA, Western Blotting (WB)

Product Details

Immunogen:	His6-tagged recombinant gQ1 of HHV-6A encoding 3-422 amino acids expressed in E. coli.
Clone:	119
Isotype:	IgG
Specificity:	Reacts with gQ1 of HHV6A and HHV6B. However, this antibody is not recommended for IP of HHV-6B due to conformation specificity.
Purification:	Produced in serum-free medium and purified by proprietary chromatography procedure under mild conditions.
Purity:	90-95 % pure by SDS-PAGE.
Sterility:	Sterile filtered

Target Details

Target:	HHV6 gQ1
Target Type:	Viral Protein
Background:	<p>Background: Human herpesvirus 6 (HHV-6) is the common collective name for Human herpesvirus 6A (HHV-6A) and Human herpesvirus 6B (HHV-6B). These closely related viruses are two of the nine herpesviruses known to have humans as their primary host. HHV-6A and HHV-6B are double stranded DNA viruses within the betaherpesvirinae subfamily and of the genus Roseolovirus. HHV-6A and HHV-6B infects almost all of the human populations tested. The overall nucleotide sequence identity between HHV- 6A and HHV-6B is 90 % and they are now classified as distinct species. HHV-6A has been described as more neurovirulent, and as such is more frequently found in patients with neuroinflammatory diseases such as multiple sclerosis. HHV-6B primary infection is the cause of the common childhood illness exanthem subitum (also known as roseola infantum or sixth disease). Additionally, HHV-6B reactivation is common in transplant recipients, which can cause several clinical manifestations such as encephalitis, bone marrow suppression and pneumonitis. gQ1 encoded by the U100 gene of HHV6 is glycoprotein, complexes with gH, gL and gQ2 to form HHV6A ligand to CD46 receptor and HHV6B ligand to CD134 receptor. It is expressed in two different forms: an 80- kDa form (gQ1-80K) and a 74- kDa form (gQ1-74K) - only gQ1-80K, but not gQ1-74K, forms the ligand complex with gQ2, gH, and gL. It associates with lipid rafts.</p>

Application Details

Application Notes:	<ol style="list-style-type: none">1) Western blotting: 1/500~1/1,000 dilution2) Immunoprecipitation (assay dependent)3) Immunofluorescence staining and Immunocytochemistry: 1/100~1/3,200 dilution4) Flow Cytometry: 1/1005) ELISA (assay dependent)
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS (x1), 50 % glycerol. Azide and carrier free.
Preservative:	Azide free

Handling

Storage: -20 °C

Storage Comment: Upon arrival centrifuge briefly and store at -20 C.

Publications

Product cited in: Tang, Hayashi, Maeki, Yamanishi, Mori: "Human herpesvirus 6 glycoprotein complex formation is required for folding and trafficking of the gH/gL/gQ1/gQ2 complex and its cellular receptor binding." in: **Journal of virology**, Vol. 85, Issue 21, pp. 11121-30, (2011) ([PubMed](#)).

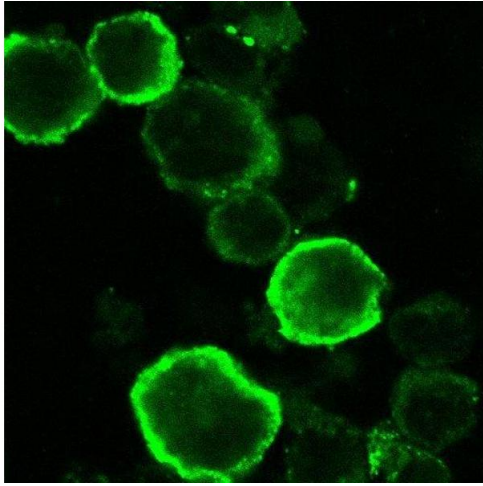
Tang, Kawabata, Yoshida, Oyaizu, Maeki, Yamanishi, Mori: "Human herpesvirus 6 encoded glycoprotein Q1 gene is essential for virus growth." in: **Virology**, Vol. 407, Issue 2, pp. 360-7, (2010) ([PubMed](#)).

Huang, Li, Sadaoka, Tang, Yamamoto, Yamanishi, Mori: "Human herpesvirus 6 envelope cholesterol is required for virus entry." in: **The Journal of general virology**, Vol. 87, Issue Pt 2, pp. 277-85, (2006) ([PubMed](#)).

Mori, Akkapaiboon, Yonemoto, Koike, Takemoto, Sadaoka, Sasamoto, Konishi, Uchiyama, Yamanishi: "Discovery of a second form of tripartite complex containing gH-gL of human herpesvirus 6 and observations on CD46." in: **Journal of virology**, Vol. 78, Issue 9, pp. 4609-16, (2004) ([PubMed](#)).

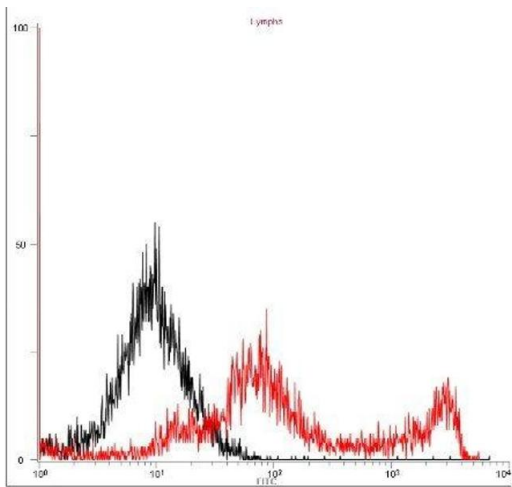
Akkapaiboon, Mori, Sadaoka, Yonemoto, Yamanishi: "Intracellular processing of human herpesvirus 6 glycoproteins Q1 and Q2 into tetrameric complexes expressed on the viral envelope." in: **Journal of virology**, Vol. 78, Issue 15, pp. 7969-83, (2004) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



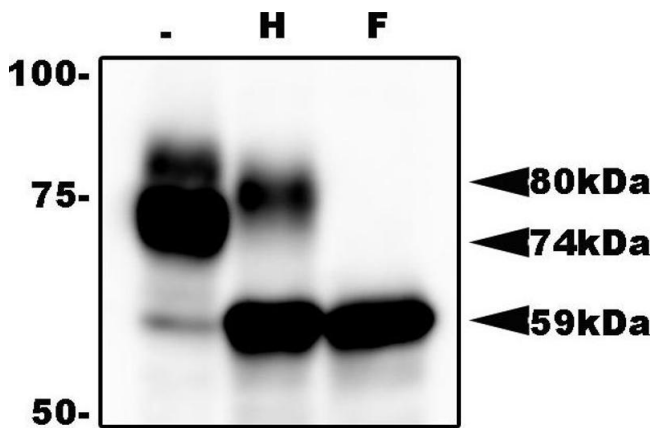
Immunofluorescence

Image 1.



Flow Cytometry

Image 2.



Western Blotting

Image 3.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN2452012.