

Datasheet for ABIN5688681
anti-Rhinovirus antibody



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1 Validation

Overview

Quantity:	0.1 mg
Target:	Rhinovirus
Reactivity:	Virus
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	Un-conjugated
Application:	ELISA, Immunofluorescence (IF), Immunohistochemistry (IHC)

Product Details

Clone:	4966
Isotype:	IgG1
Specificity:	Specific for the VP3 of numerous Rhino types. Does not cross react with Enteroviruses, Influenza A, Influenza B, RSV, Adenovirus, Para 1, Para 2, Para 3, Chlamydia pneumoniae, Rhinovirus pneumoniae & Hepatitis A virus.
Purification:	Rhinovirus Antibody is purified from ascites fluid or culture medium by protein A chromatography or sequential differential precipitations.

Target Details

Target:	Rhinovirus
Target Type:	Virus

Application Details

Application Notes: Rhinovirus Antibody [4966] can be used at 1:10-1:50 for Western blotting, Immunohistochemistry, and Immunofluorescence. For ELISA use at 1:20-1:200.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Rhinovirus antibody is in a phosphate saline buffer (0.01M, pH 7.2) containing 0.1 % sodium azide preservative. No stabilizing proteins have been added.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Rhinovirus antibody can be stored at -20°C, stable for one year.



Successfully validated (Immunohistochemistry (IHC))

by [Virology Research Lab](#), Department of Pathology and Laboratory Medicine, Faculty of Medicine, University of British Columbia

Report Number: 103804

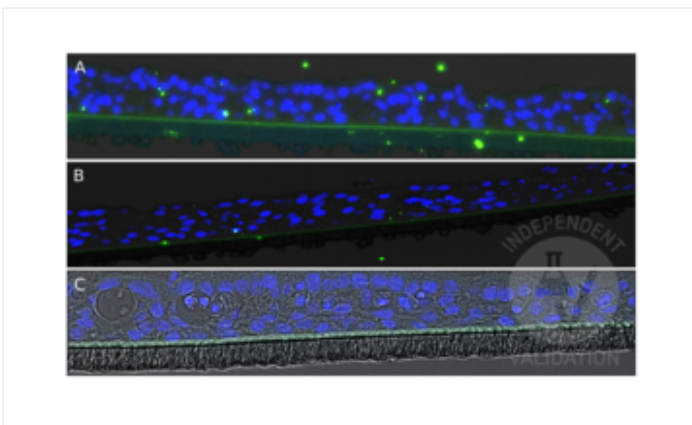
Date: Jun 14 2019

Target:	Rhinovirus
Lot Number:	22523-1902
Method validated:	Immunohistochemistry (IHC)
Positive Control:	Human rhinovirus 14 infected tissue (2moi/cell)
Negative Control:	Uninfected tissue no primary antibody controls
Notes:	The rhinovirus antibody ABIN5688681 successfully labels the targeted antigen in a 3D respiratory tissue model in IHC.
Primary Antibody:	ABIN5688681
Secondary Antibody:	Goat Anti-Mouse IgG H&L AF488 antibody (Abcam, ab150117)
Protocol:	<ul style="list-style-type: none">• Grow EpiAirway 3D tissue model (MatTek) in Normal Human Bronchial Epithelial Cells - Growth Medium MatTek, AIR-100-ASY-AFAB) at 37°C and 5% CO₂.• Infect tissue model with HRV-14 (ATCC, VR284) at 2MOI/cell).• Incubate for 72h at 34°C and 5% CO₂.• Fix tissue in 4% buffered formalin for 45 min at 23°C.• Rinse sections 2x for 2min with PBS.• Permeabilized tissues with 0.5% saponin for 15min,rinsed 2X with PBS.• Block tissue in PBS containing 5% BSA (R&D Systems, DY995) for 1h at 4°C.• Blot excess serum from sections.• Incubate tissue with primary mouse anti-rhinovirus antibody (antibody-online, ABIN5688681, lot 22523-1902)diluted 1:50 in PBS containing 1% BSA and 0.2% tween 20 ON at 4°C. Includeno primaryantibody negative controls.• Rinse tissue 3x with PBS. Keep negative controls in a separate container.• Incubate sections with secondary Goat Anti-Mouse IgG H&L AF488 antibody (Abcam, ab150117)diluted 1:250x in PBS containing 1% BSA for 1h at 23°C.• Rinsed sections 3x with PBS.• Mount sections in fluoroshield mounting medium with DAPI (Abcam, ab104139).• Acquire images with Zeiss Axioplan 2 Imaging Microscope 20X objective, and analyze usingAxio Vision software.

Experimental Notes:

- ABIN5688681 showed some signals only in an HRV-14 infected human 3D tissue model that had not undergone antigen retrieval. In HRV-14 samples that had been incubated for 15min in citrate buffer pH5.0 at sub-boiling temperatures no rhinovirus was detected. In order to block unspecific binding of the antibody these samples were incubated ON at 4°C in blocking buffer. It is possible that the blocking step was too long, thus preventing the antibody from binding to the antigen.
- Omitting the antigen retrieval step and reducing the blocking time resulted in a specific signal in the rhinovirus infected samples. However, unspecific background signal was also visible in the uninfected negative controls. It may be possible to reduce the background signal by increasing the incubation during the blocking step.

Image for Validation report #103804



Validation image no. 1 for anti-Rhinovirus antibody (ABIN5688681)

Staining of rhinovirus in a human 3D respiratory tissue model infected with HRV-14 using ABIN5688681 and an AF488-conjugated secondary antibody (A). In comparison, the same tissue model without HRV-14 infection (B) or stained using the secondary antibody only (C). Stained rhinovirus appears as a green signal, DAPI counterstain in blue.