

Human Rhinovirus Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 18758 [Clone R16-7]

Format: 100 µg Protein G-purified antibody in PBS, pH 7.4.

BACKGROUND

Picornaviruses are small, non-enveloped RNA viruses with an icosahedral capsid and a single strand, plus-sense RNA genome. The genome encodes a single polyprotein that is proteolytically processed by viral proteases into structural and non-structural proteins. The family of picornaviruses includes numerous human and animal viruses including more than 100 serotypes of human rhinoviruses (HRV). HRV infections are characteristic upper airway infections (the main cause of the common cold), and they provoke significant lower airway symptoms for patients with asthma, cystic fibrosis, or chronic obstructive pulmonary disease.

SPECIFICATION SUMMARY

Antigen: Purified HRV16

Host Species: Mouse

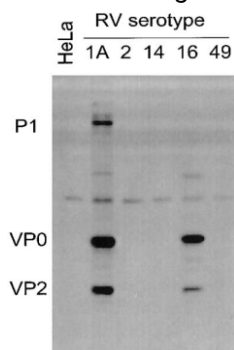
Antibody Subtype: IgG2b

SPECIFICITY

This non-neutralizing antibody recognizes capsid protein VP2 (mw ~30kDa) of HRV16, HRV1A, and HRV39 and VP2 precursors VP0 (mw ~37kDa) and P1 (mw ~90kDa).

APPLICATIONS

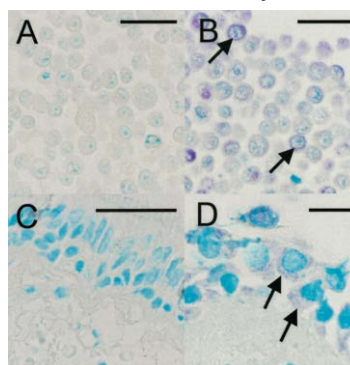
Immunoblotting: use at 2-5ug/ml.



Lysates of HeLa cells infected with RV serotypes 1A, 2, 14, 16 or 49 and blotted with #18758.

These are recommended concentrations; endusers should determine optimal concentrations for their applications.

Immunohistochemistry: use at 1-10ug/ml.



IHC staining for viral capsid protein with #18758: (A) Uninfected HeLa cells, (B) HRV16-infected HeLa cells, (C) Negative bronchial biopsy section, (D) Positive bronchial biopsy section.

DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

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STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid repeated freeze-thaw cycles.

PRODUCT REFERENCES

1. Mosser AG et al. 2002 J Infect Dis 185: 734.
2. Mosser AG et al. 2005 Am J Respir Crit Care Med 171: 645.
3. Jurgeit A et a. 2010 Virology J 7: 264.
4. Chattoraj SS et al. 2011 Infect Immun 79: 4131.

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

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