

## Product datasheet

# Anti-Poliovirus Receptor antibody [D171] (Biotin) ab79434

### Overview

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<b>Product name</b>	Anti-Poliovirus Receptor antibody [D171] (Biotin)
<b>Description</b>	Mouse monoclonal [D171] to Poliovirus Receptor (Biotin)
<b>Host species</b>	Mouse
<b>Conjugation</b>	Biotin
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt, ICC/IF <b>Unsuitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human, Monkey <b>Does not react with:</b> Mouse, Rat, Rabbit, Hamster, Dog, Pig
<b>Immunogen</b>	Tissue/ cell preparation (Human) - HeLa cells
<b>Epitope</b>	Amino acids 35-50
<b>Positive control</b>	HeLa, SV 80, HEp2, RD, A431, HL60, U937, Monkey Vero, GMK, or TC7 cells.
<b>General notes</b>	This antibody protects HeLa cells against the cytopathic effect of all three poliovirus serotypes. Intact Ig or Fab fragment prevents binding of 35S-labeled poliovirus to HeLa cells.

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.09% Sodium Azide Constituents: 0.2% BSA, 10mM PBS, pH 7.4
<b>Purity</b>	Protein G purified
<b>Purification notes</b>	Purified from ascites fluid
<b>Primary antibody notes</b>	This antibody protects HeLa cells against the cytopathic effect of all three poliovirus serotypes. Intact Ig or Fab fragment prevents binding of 35S-labeled poliovirus to HeLa cells.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	D171
<b>Isotype</b>	IgG1

## Applications

Our [Abpromise guarantee](#) covers the use of **ab79434** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use at an assay dependent concentration. <a href="#">ab18434</a> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
ICC/IF		Use at an assay dependent concentration.
<b>Application notes</b>		Is unsuitable for WB.

## Target

### Function

Mediates NK cell adhesion and triggers NK cell effector functions. Binds two different NK cell receptors: CD96 and CD226. These interactions accumulates at the cell-cell contact site, leading to the formation of a mature immunological synapse between NK cell and target cell. This may trigger adhesion and secretion of lytic granules and IFN-gamma and activate cytotoxicity of activated NK cells. May also promote NK cell-target cell modular exchange, and PVR transfer to the NK cell. This transfer is more important in some tumor cells expressing a lot of PVR, and may trigger fratricide NK cell activation, providing tumors with a mechanism of immunoevasion. Plays a role in mediating tumor cell invasion and migration. Serves as a receptor for poliovirus attachment to target cells. May play a role in axonal transport of poliovirus, by targeting virion-PVR-containing endocytic vesicles to the microtubular network through interaction with DYNLT1. This interaction would drive the virus-containing vesicle to the axonal retrograde transport.

### Sequence similarities

Belongs to the nectin family.  
Contains 2 Ig-like C2-type (immunoglobulin-like) domains.  
Contains 1 Ig-like V-type (immunoglobulin-like) domain.

### Cellular localization

Secreted and Cell membrane.

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