

Product datasheet

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

Overview

Product name	Anti-Poliovirus Receptor/PVR antibody [D171] (Biotin)
Description	Mouse monoclonal [D171] to Poliovirus Receptor/PVR (Biotin)
Host species	Mouse
Conjugation	Biotin
Tested applications	Suitable for: Flow Cyt, ICC/IF Unsuitable for: WB
Species reactivity	Reacts with: Human, Monkey Does not react with: Mouse, Rat, Rabbit, Hamster, Dog, Pig
Immunogen	Tissue/ cell preparation (Human) - HeLa cells
Epitope	Amino acids 35-50
Positive control	HeLa, SV 80, HEp2, RD, A431, HL60, U937, Monkey Vero, GMK, or TC7 cells.
General notes	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

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium Azide Constituents: 0.2% BSA, 10mM PBS, pH 7.4
Purity	Protein G purified
Purification notes	Purified from ascites fluid
Primary antibody notes	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.
Clonality	Monoclonal
Clone number	D171
Isotype	IgG1

Applications

The Abpromise guarantee

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. ab18434 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
ICC/IF		Use at an assay dependent concentration.

Application notes

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 immuno-evasion. 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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