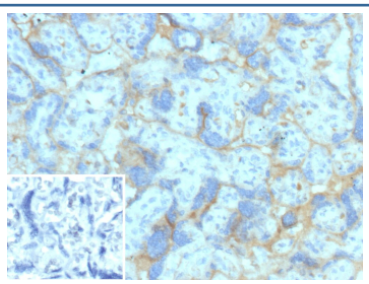
Poliovirus receptor related 4 Antibody / NECTIN4 / Extracellular domain [clone NECTIN4/13438R] (V6026)

Catalog No.	Formulation	Size
V6026-100UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V6026-20UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug
V6026SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

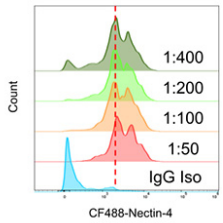
Recombinant RABBIT MONOCLONAL

Bulk quote request

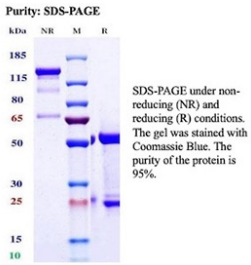
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	NECTIN4/13438R
UniProt	Q96NY8
Localization	Adherens junction, Cell junction, Cell membrane, Secreted
Applications	Flow Cytometry : 1-2ug/million cells Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This Poliovirus receptor related 4/NECTIN4 antibody is available for research use only.



Immunohistochemistry analysis of Poliovirus receptor related 4 / NECTIN4 antibody (clone NECTIN4/13438R) in human placental tissue. Formalin-fixed, paraffin-embedded placenta demonstrates membranous HRP-DAB brown staining outlining trophoblastic cells and chorionic villi, consistent with cell surface localization of Nectin-4. Background staining is minimal, and hematoxylin counterstain highlights tissue morphology. The inset shows PBS used in place of primary antibody as a negative control, confirming absence of non-specific secondary antibody binding. Heat-induced epitope retrieval was performed by heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 minutes at 95oC followed by cooling at room temperature for 20 minutes prior to staining.



Flow cytometry analysis of Poliovirus receptor related 4 / NECTIN4 antibody (clone NECTIN4/13438R) in human T47D breast carcinoma cells. Cells were incubated with recombinant rabbit anti-Nectin-4 monoclonal antibody at dilutions of 1:50 (4 ug/ml; dark red), 1:100 (2 ug/ml; orange), 1:200 (1 ug/ml; light green), and 1:400 (0.5 ug/ml; dark green), followed by goat anti-rabbit IgG-CF488 secondary antibody. CF488 fluorescence intensity (log10 scale, x-axis) is plotted against relative cell count (y-axis). Increasing antibody concentration produces progressive rightward shifts of the fluorescence peak, consistent with dilution-dependent binding to cell-surface Nectin-4. The blue histogram represents the IgG isotype control.



SDS-PAGE Analysis of Purified Poliovirus receptor related 4/NECTIN4 antibody (NECTIN4/13438R). Confirmation of Purity and Integrity of Antibody.

Description

Poliovirus receptor related 4 antibody, also known as NECTIN4 antibody, recognizes Poliovirus receptor related 4, a type I transmembrane cell adhesion molecule encoded by the NECTIN4 gene. Commonly referred to as Nectin-4 and also designated PVRL4, this protein is a member of the nectin family within the immunoglobulin superfamily. NECTIN4 localizes predominantly to the cell membrane at adherens junctions, where it participates in Ca2+-independent cell-cell adhesion and contributes to maintenance of epithelial tissue architecture. Poliovirus receptor related 4 antibody is widely used in studies of epithelial biology and tumor-associated membrane protein expression.

NECTIN4 contains three extracellular immunoglobulin-like domains, a single transmembrane segment, and a cytoplasmic tail that interacts with intracellular adaptor proteins involved in junctional organization and cytoskeletal linkage. Through homophilic and heterophilic interactions with other nectin family members, Poliovirus receptor related 4 regulates cell polarity, adhesion strength, and tissue integrity. In normal tissues, expression is relatively restricted, with detectable levels in skin, placenta, and certain epithelial compartments. During development, nectin family proteins contribute to tissue morphogenesis and coordinated cell positioning.

Aberrant overexpression of Nectin-4 has been documented in multiple malignancies, including urothelial carcinoma, breast cancer, lung cancer, and ovarian cancer. Elevated NECTIN4 expression has been associated with enhanced proliferation and tumor progression, and the protein has been explored as a surface biomarker in oncology research. Immunostaining typically demonstrates membranous localization in positive tumor cells, consistent with its function as a cell surface adhesion molecule. Clone NECTIN4/13438R is a recombinant rabbit monoclonal antibody generated through defined sequence expression, supporting consistency between production lots. This Poliovirus receptor related 4 antibody enables investigation of NECTIN4 expression in research applications focused on epithelial adhesion, tumor biology, and membrane-associated signaling pathways.

Application Notes

1. Optimal dilution of the Poliovirus receptor related 4/NECTIN4 antibody should be determined by the researcher.

2. This Poliovirus receptor related 4/NECTIN4 antibody is recombinantly produced by expression in CHO cells.

Immunogen

A recombinant fragment (around amino acids 266-280) of human NECTIN4 protein corresponding to the extracellular domain (exact sequence is proprietary) was used as the immunogen for the Poliovirus receptor related 4/NECTIN4

antibody.

Storage

Poliovirus receptor related 4/NECTIN4 antibody with sodium azide - store at 2 to 8oC; antibody without sodium azide - store at -20 to -80oC.