

For Research Use Only

nectin 4 Recombinant antibody, PBS Only (Detector)



Catalog Number: 83223-4-PBS

Basic Information

Catalog Number: 83223-4-PBS	GenBank Accession Number: BC010423	Purification Method: Protein A purification
Size: 1 mg/ml	GeneID (NCBI): 81607	CloneNo.: 240009F2
Source: Rabbit	UNIPROT ID: Q96NY8	Affinity: $K_D = 2.28 \times 10^{-10}$
Isotype: IgG	Full Name: poliovirus receptor-related 4	$K_{off} = 2.98 \times 10^{-5}$ $K_{on} = 2.62 \times 10^5$
	Calculated MW: 510 aa, 55 kDa	

Applications

Tested Applications:
Cytometric bead array, Indirect ELISA, IF/ICC

Species Specificity:
human

Background Information

Nectin-4, also known as PVRL4, is a type-I transmembrane glycoprotein that belongs to the nectin subfamily of immunoglobulin-like adhesion molecules that participate in Ca(2+)-independent cell-cell adhesion (PMID: 18703497). The extracellular domain of Nectin-4, which contains three immunoglobulin-like domains (V and two C2-type domains, VCC), can be proteolytically cleaved to release a soluble form. Nectin-4 interacts with afadin via its carboxyl-terminal cytoplasmic sequence and trans-interacts with nectin-1/PRR1 through V domain interaction (PMID: 11544254). It acts as a receptor for measles virus (PMID: 22048310). Nectin-4 is overexpressed in multiple human malignancies and the aberrant expression is correlated with cancer progression and poor prognostic (PMID: 35131876). Nectin-4 can be detected as a soluble form of 43 kDa and a transmembrane form of 66 kDa (PMID: 15784625).

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:

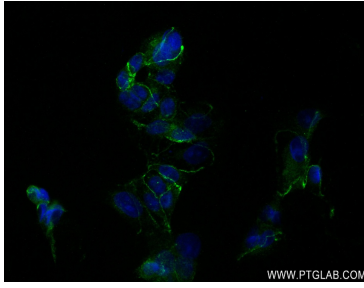
T: 4006900926

E: Proteintech-CN@ptglab.com

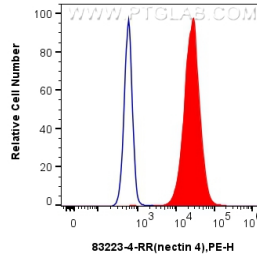
W: ptgcn.com

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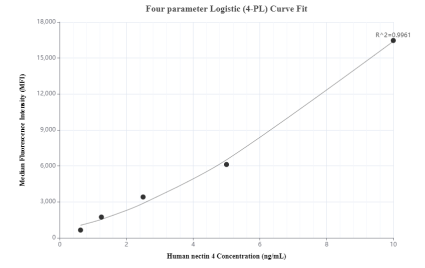
Selected Validation Data



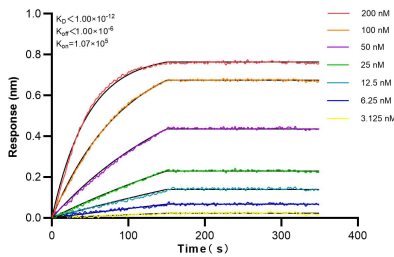
Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using Nectin-4/PVRL4 antibody (83223-4-RR, Clone: 240009F2) at dilution of 1:150 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 83223-4-PBS in a different storage buffer formulation.



1×10^6 MCF-7 cells were surface stained with 0.25 ug Nectin-4/PVRL4 Recombinant Antibody (83223-4-RR, Clone: 240009F2) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were not fixed. This data was developed using the same antibody clone with 83223-4-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00147-1, nectin 4 Recombinant Matched Antibody Pair - PBS only. Capture antibody: 83223-1-PBS. Detection antibody: 83223-4-PBS. Standard: Eg0415. Range: 0.625-10 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 83223-4-RR against Human Nectin-4/PVRL4 were performed. The affinity constant is below 1 pM.