

Nectin-4/PVRL4 Polyclonal antibody

Catalog Number: 31026-1-AP

Basic Information

Catalog Number:

31026-1-AP

Concentration:

650 ug/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC010423

GeneID (NCBI):

81607

UNIPROT ID:

Q96NY8

Full Name:

poliovirus receptor-related 4

Calculated MW:

510 aa, 55 kDa

Observed MW:

55-80 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:8000

IHC 1:300-1:1200

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Species Specificity:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: NIH/3T3 cells, MCF-7 cells, T-47D cells, MDA-MB-231 cells

IHC: human placenta tissue,

IF/ICC: MCF-7 cells,

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 Ca²⁺-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 glycosylated form of 60-80 kDa and a deglycosylated form of 55-70 kDa. The 43 kDa band immunoprecipitated in the supernatant corresponds to the soluble Nectin-4 form. (PMID: 15784625).

Storage

Storage:

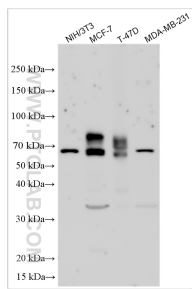
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

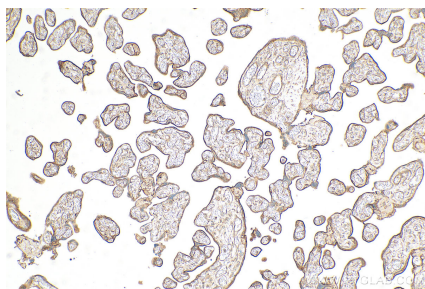
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

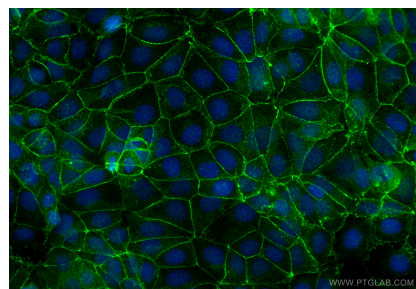
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 31026-1-AP (Nectin-4/PVRL4 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 31026-1-AP (Nectin-4/PVRL4 antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using Nectin-4/PVRL4 antibody (31026-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).