

Nectin-4/PVRL4 Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 62, 75	Source/Isotype: Rabbit	UniProt ID: #Q96NY8	Entrez-Gene Id: 81607
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Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Nectin-4/PVRL4 Antibody recognizes endogenous levels of total Nectin-4/PVRL4 protein. Based upon sequence alignment, this antibody is not predicted to cross-react with PVR, PVRL1, PVRL2, and PVRL3 proteins.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human Nectin-4/PVRL4 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Nectin-4/poliovirus receptor-related 4 (PVRL4) is a type-I transmembrane glycoprotein that belongs to the immunoglobulin superfamily and promotes cell-cell adhesion by serving as a major component of adherens junctions (1-3). The extracellular domain of Nectin-4, which contains an Ig variable-like domain (V) and two Ig constant-like domains (C), mediates binding to the measles virus (4) and to neighboring cells through *trans* heterophilic interactions with Nectin-1 (5,6). Unlike other nectin family members, which are widely expressed in adult tissues, Nectin-4 expression in humans is largely restricted to the placenta (7). Research studies have demonstrated that Nectin-4 is overexpressed in a variety of human solid tumors of the pancreas (8), breast (9,10), lung (11), and ovary (12). Due to its restricted expression pattern in normal human tissues, Nectin-4 may serve as a novel diagnostic and therapeutic target for a variety of human tumors.

Background References

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3. Harrison, O.J. et al. (2012) *Nat Struct Mol Biol* 19, 906-15.
4. Mühlebach, M.D. et al. (2011) *Nature* 480, 530-3.
5. Mateo, M. et al. (2014) *J Virol* 88, 14161-71.
6. Fabre, S. et al. (2002) *J Biol Chem* 277, 27006-13.
7. Reymond, N. et al. (2001) *J Biol Chem* 276, 43205-15.
8. Nishiwada, S. et al. (2015) *J Exp Clin Cancer Res* 34, 30.
9. Lattanzio, R. et al. (2014) *Oncogenesis* 3, e118.
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11. Takano, A. et al. (2009) *Cancer Res* 69, 6694-703.
12. Nabih, E.S. et al. (2014) *Biomarkers* 19, 498-504.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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