PVRL4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PVRL4, Polyclonal Antibody
Full Product Name	PVRL4, ID (PVRL4, LNIR, PRR4, Poliovirus receptor-related protein 4, Ig superfamily receptor LNIR, Nectin-4, Processed poliovirus receptor-related protein 4) (MaxLight 550)
Product Gene Name	anti-PVRL4 antibody
Product Synonym Names	PVRL4; LNIR; PRR4; Poliovirus receptor-related protein 4; Ig superfamily receptor LNIR; Nectin-4; Processed poliovirus receptor-related protein 4
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	55,454 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (161040781..161059385, complement). Location: 1q22-q23.2
OMIM	609607
3D Structure	ModBase 3D Structure for Q96NY8
Immunogen	PVRL4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 238-266 amino acids from the Central region of human PVRL4.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-PVRL4 antibody	Antibodies; Receptors
Applications Tested/Suitable for anti-PVRL4 antibody	Western Blot (WB), FLISA
Application Notes for anti-PVRL4 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-PVRL4 antibody	Poliovirus receptor-like proteins (PVRLs), such as PVRL4, are adhesion receptors of the immunoglobulin superfamily and function in cell-cell adhesion (Reymond et al., 2001 [PubMed 11544254]).
Product References and Citations for anti-PVRL4 antibody	Derycke, M.S., et al. Am. J. Clin. Pathol. 134(5):835-845(2010). Brancati, F., et al. Am. J. Hum. Genet. 87(2):265-273(2010). Takano, A., et al. Cancer Res. 69(16):6694-6703(2009). Fabre-Lafay, S., et al. BMC Cancer 7, 73 (2007): Fabre-Lafay, S., et al. J. Biol. Chem. 280(20):19543-19550(2005).

Other Notes	Small volumes of anti-PVRL4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PVRL4 purchase	MBS6339257 is an antibody targeting PVRL4. Also known as PVRL4, ID (PVRL4, LNIR, PRR4, Poliovirus receptor-related protein 4, Ig superfamily receptor LNIR, Nectin-4, Processed poliovirus receptor-related protein 4) (MaxLight 550). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PVRL4. It may not necessarily be applicable to this product.

NCBI GI #	222136611
NCBI GeneID	81607
NCBI Accession #	NP_112178.2
UniProt Primary Accession #	Q96NY8
UniProt Secondary Accession #	Q96K15
UniProt Related Accession #	Q96NY8
GenBank Nucleotide #	NM_030916.2
NCBI Official Full Name	poliovirus receptor-related protein 4
NCBI Official Synonym Full Names	poliovirus receptor-related 4
NCBI Official Symbol	PVRL4
NCBI Official Synonym Symbols	LNIR; PRR4; EDSS1; nectin-4
UniProt Protein Name	Poliovirus receptor-related protein 4
UniProt Synonym Protein Names	Ig superfamily receptor LNIR; Nectin-4
UniProt Gene Name	PVRL4
UniProt Synonym Gene Names	LNIR; PRR4
UniProt Entry Name	PVRL4_HUMAN
NCBI Protein Information	poliovirus receptor-related protein 4; nectin 4; Ig superfamily receptor LNIR
NCBI Summary for PVRL4	This gene encodes a member of the nectin family. The encoded protein contains two immunoglobulin-like (Ig-like) C2-type domains and one Ig-like V-type domain. It is involved in cell adhesion through trans-homophilic and -heterophilic interactions. It is a single-pass type I membrane protein. The soluble form is produced by proteolytic cleavage at the cell surface by the metalloproteinase ADAM17/TACE. The secreted form is found in both breast tumor cell lines and breast tumor patients. Mutations in this gene are the cause of ectodermal dysplasia-syndactyly syndrome type 1, an autosomal recessive disorder. Alternatively spliced transcript variants have been found but the full-length nature of the variant has not been determined.[provided by RefSeq, Jan 2011]

UniProt Comments for PVRL4	nectin 4: Seems to be involved in cell adhesion through trans- homophilic and -heterophilic interactions, the latter including specifically interactions with PVRL2/nectin-1. Does not act as receptor for alpha-herpesvirus entry into cells. Defects in PVRL4 are the cause of ectodermal dysplasia- syndactyly syndrome type 1 (EDSS1). EDSS1 is a form of ectodermal dysplasia, a heterogeneous group of disorders due to abnormal development of two or more ectodermal structures. EDSS1 is characterized by the association of hair and teeth abnormalities with cutaneous syndactyly of the hands and/or feet. Hair morphologic abnormalities include twists at irregular intervals (pilli torti) and swelling along the shafts, particularly associated with areas of breakage. Dental findings consist of abnormally widely spaced teeth, with peg-shaped and conical crowns. Patients have normal sweating. Belongs to the nectin family. Protein type: Membrane protein, integral; Cell adhesion Chromosomal Location of Human Ortholog: 1q23.3 Cellular Component: adherens junction; plasma membrane; integral to membrane Molecular Function: protein binding Biological Process: intercellular junction assembly and maintenance; viral reproduction; cell adhesion Disease: Ectodermal Dysplasia-syndactyly Syndrome 1
Research Articles on PVRL4	**1.** Data suggest that expression of nectin-4 is up-regulated in eutopic endometrium of patients with endometriosis compared with control subjects.
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