



## Rabbit Anti-PVRL1 antibody

SL11126R

<b>Product Name:</b>	PVRL1
<b>Chinese Name:</b>	脊髓灰质炎受体相关蛋白1抗体
<b>Alias:</b>	CD111; CD111 antigen; CLPED1; ectodermal dysplasia 4 (Margarita Island type); ED4; Herpes virus entry mediator C; Herpesvirus entry mediator C; Herpesvirus Ig like receptor; Herpesvirus Ig-like receptor; HIgR; HveC; Nectin 1; Nectin-1; Nectin1; OFC7; OROFACIAL CLEFT 7; Poliovirus receptor related protein 1; poliovirus receptor-like 1; Poliovirus receptor-related protein 1; PRR; PRR1; PVRL 1; PVRL1; PVRL1 HUMAN; PVRR; PVRR1; SK-12.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Cow,Rabbit,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	54kDa
<b>Cellular localization:</b>	The cell membraneSecretory protein
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human PVRL1/CD111/Nectin1:31-130/517<Extracellular>
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	Nectin is a Ca <sup>2+</sup> -independent homophilic cell adhesion molecule that belongs to the

immunoglobulin superfamily. Human Nectin is identical to the poliovirus receptor-related protein (PRR) and is identified to be the alpha herpesvirus entry mediator. Nectin constitutes a family consisting of at least nectin 1, 2 and 3. Nectin 2 and 3 are ubiquitously expressed, whereas nectin 1 is abundantly expressed in the brain. Nectin 1 exists as nectin 1 $\alpha$  and 1 $\beta$ /HIgR, produced by alternative splicing. The cytoplasmic regions of Nectin 1 $\alpha$ , but not Nectin 1 $\beta$ /HIgR, have a C-terminal conserved motif (E/A-X-Y-V). This motif interacts with the PDZ domain of the F-Actin-binding protein, afadin, through which it is linked to the Actin cytoskeleton. Nectin 1, also designated HveC/ PRR1, allows the entry of herpes simplex virus type 1 (HSV-1) and HSV-2 into mammalian cells. The interaction of virus envelope glycoprotein D (gD) with nectin 1 is an essential step in the process leading to membrane fusion; the gD binding site is located at the first Ig-like domain of Nectin 1. Both the transinteraction of nectin and the interaction of nectin with afadin are necessary for their co-localization with E-cadherin and catenins at adherens junctions.

**Function:**

Promotes cell-cell contacts by forming homophilic or heterophilic trans-dimers. Heterophilic interactions have been detected between PVRL1/nectin-1 and PVRL3/nectin-3 and between PVRL1/nectin-1 and PVRL4/nectin-4.

**Subunit:**

Can form trans-heterodimers with PVRL3/nectin-3 and with PVRL4/nectin-4. Interacts (via C-terminus) with afadin (via PDZ domain); this interaction recruits PVRL1 to cadherin-based adherens junctions. Interacts with integrin alphaV/beta3. Interacts with herpes simplex virus 1 (HHV-1), herpes simplex virus 2 (HHV-2), and pseudorabies virus (PRV) envelope glycoprotein D; functions as an entry receptor for these viruses.

**Subcellular Location:**

Isoform Alpha: Cell membrane; Single-pass type I membrane protein. Isoform Delta: Cell membrane; Single-pass type I membrane protein. Isoform Gamma: Secreted.

**DISEASE:**

Defects in PVRL1 are the cause of ectodermal dysplasia Margarita Island type (EDMI) [MIM:225060]; also known as Zlotogora-Ogur syndrome, cleft lip/palate-ectodermal dysplasia syndrome (CLPED1) or ectodermal dysplasia 4. Ectodermal dysplasia defines a heterogeneous group of disorders due to abnormal development of two or more ectodermal structures. EDMI is an autosomal recessive syndrome characterized by the association of cleft lip/palate, ectodermal dysplasia (sparse short and dry scalp hair, sparse eyebrows and eyelashes), and partial syndactyly of the fingers and/or toes. Two thirds of the patients do not manifest oral cleft but present with abnormal teeth and nails.

**Similarity:**

Belongs to the nectin family.  
Contains 2 Ig-like C2-type (immunoglobulin-like) domains.  
Contains 1 Ig-like V-type (immunoglobulin-like) domain.

**SWISS:**  
Q15223

**Gene ID:**  
5818

**Database links:**

[Entrez Gene: 5818](#) Human

[Entrez Gene: 58235](#) Mouse

[Entrez Gene: 397247](#) Pig

[Entrez Gene: 192183](#) Rat

[Omim: 600644](#) Human

[SwissProt: Q15223](#) Human

[SwissProt: Q9JKF6](#) Mouse

[SwissProt: Q9GL76](#) Pig

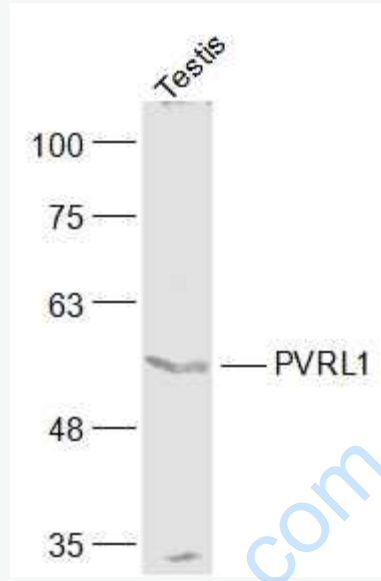
[Unigene: 334846](#) Human

[Unigene: 335096](#) Mouse

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

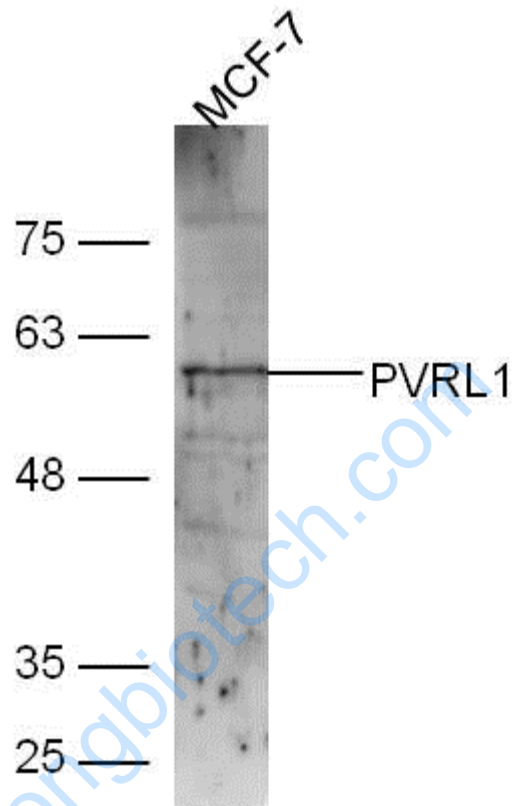
Testis(Mouse) Lysate at 40 ug

Primary: Anti-PVRL1 (SL11126R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 54 kD

Observed band size: 54 kD



Sample:

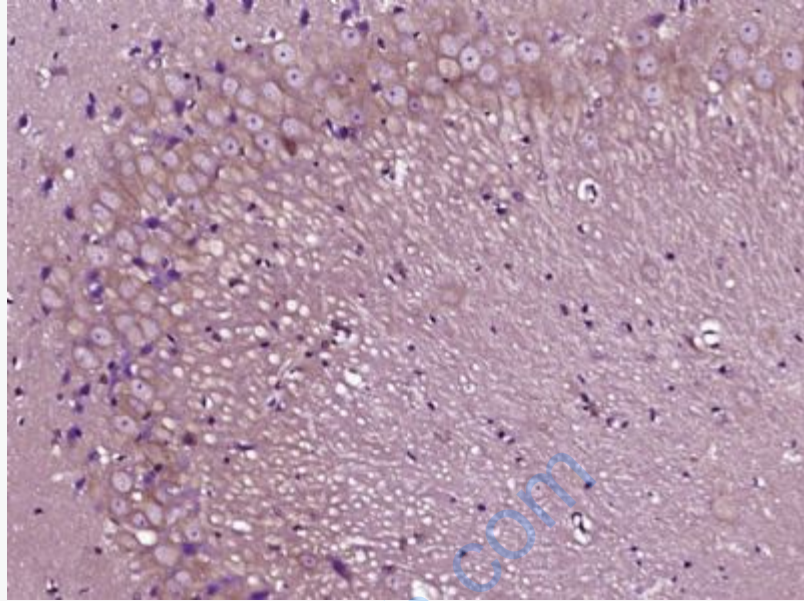
MCF-7 Cell (Human) Lysate at 30 ug

Primary: Anti-PVRL1 (SL11126R) at 1/300 dilution

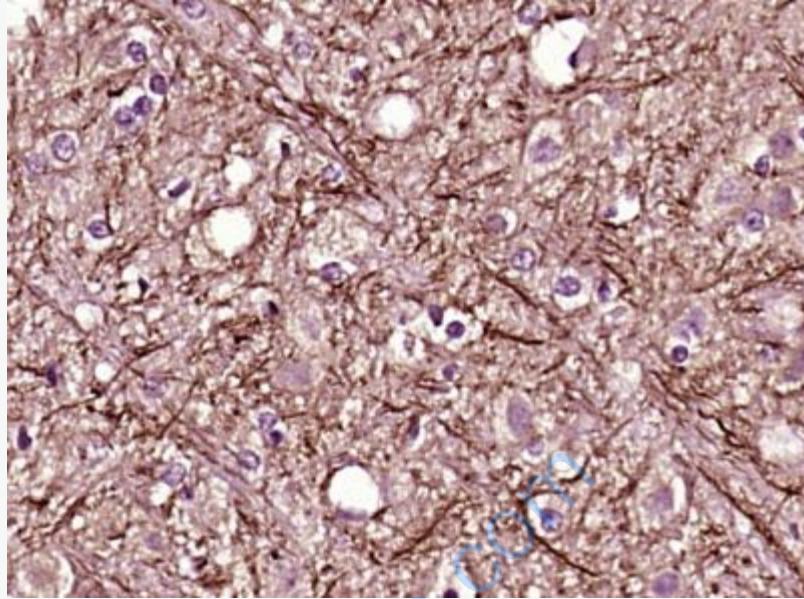
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 54 kD

Observed band size: 57 kD



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PVRL1) Polyclonal Antibody, Unconjugated (SL11126R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PVRL1) Polyclonal Antibody, Unconjugated (SL11126R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.