

APB475Hu01 100µg

Active Poliovirus Receptor Related Protein 3 (PVRL3)

Organism Species: *Homo sapiens (Human)*

Instruction manual

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

1st Edition (Apr, 2016)

[PROPERTIES]

Source: Prokaryotic expression.

Host: *E. coli*

Residues: Thr171~Ile377

Tags: N-terminal His-tag

Purity: >95%

Endotoxin Level: <1.0EU per 1µg (determined by the LAL method).

Buffer Formulation: PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.

Applications: Cell culture; Activity Assays.

(May be suitable for use in other assays to be determined by the end user.)

Predicted isoelectric point: 6.6

Predicted Molecular Mass: 26.5kDa

Accurate Molecular Mass: 30kDa as determined by SDS-PAGE reducing conditions.

[USAGE]

Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

[SEQUENCE]

TVSLIKGPDS LIDGGNETVA AICIAATGKP VAHIDWEGDL GEMESTTTSF PNETATIISQ YKLFPTRFAR
GRRITCVVKH PALEKDIRYS FILDIQAPE VSVTGYDGNW FVGRKGVNLK CNADANPPPF KSVWSRLDGQ
WPDGLLASDN TLHFVHPLTF NYSGVYICKV TNSLGQRSDQ KVIYISDPPT TTTLQPTIQW HPSTADI

[ACTIVITY]

Poliovirus receptor-related 3 (PVRL3), also known as nectin-3 and CD113, is a human protein of the immunoglobulin superfamily which forms part of adherens junctions. Nectins and Nectin-like molecules (Nectl) are families of cellular adhesion molecules involved in Ca²⁺-independent cellular adhesion. Four nectins have been identified in humans, namely nectin-1, nectin-2, nectin-3 and nectin-4. Nectins are ubiquitously expressed and have adhesive roles in a wide range of tissues such as the adherens junction of epithelia or the chemical synapse of the neuronal tissue. Besides, Poliovirus Receptor (PVR) has been identified as an interactor of PVRL3, thus a binding ELISA assay was conducted to detect the interaction of recombinant human PVRL3 and recombinant human PVR. Briefly, PVRL3 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100ul were then transferred to PVR-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-PVRL3 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50µL stop solution to the wells and read at 450nm immediately. The binding activity of PVRL3 and PVR was shown in Figure 1, and this effect was in a dose dependent manner.

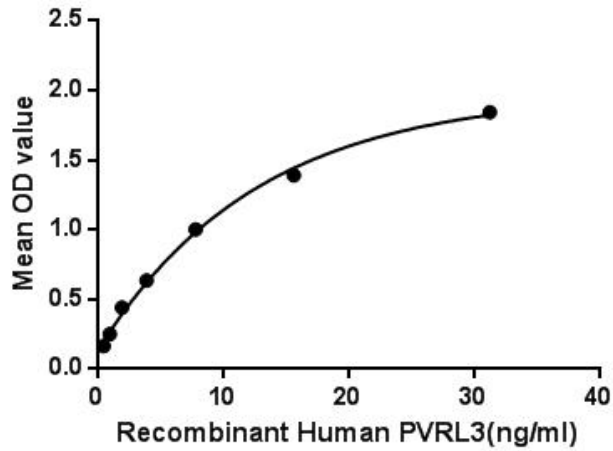


Figure 1. The binding activity of PVRL3 with PVR

[IDENTIFICATION]

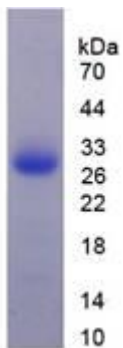


Figure 2. SDS-PAGE

Sample: Active recombinant PVRL3, Human

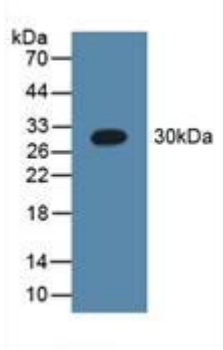


Figure 3. Western Blot

Sample: Recombinant PVRL3, Human;

Antibody: Rabbit Anti- Human PVRL3 Ab (PAB475Hu01)

[IMPORTANT NOTE]

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.