

Human CellExp CXADR /CAR, human recombinant protein
CXADR, CAR, CAR4/6, HCAR
Catalog # PBV11062r**Specification**

Human CellExp CXADR /CAR, human recombinant protein - Product infoPrimary Accession
Calculated MW[P78310](#)

This protein is fused with a C-terminal 6×His tag, has a calculated MW of 24.9 kDa expressed. The predicted N-terminus is Leu 20. Protein migrates as 35 kDa in reduced SDS-PAGE due to glycosylation. KDa

Human CellExp CXADR /CAR, human recombinant protein - Additional InfoGene ID
Gene Symbol
Other Names
CXADR, CAR, CAR4/6, HCAR**1525**
CXADRGene Source
Source
Assay&Purity
Assay2&Purity2
Recombinant
Results

Human
HEK293 cells
SDS-PAGE; ≥95%
N/A;
Yes
Measured by the ability of the immobilized protein to support the adhesion of mouse neutrophils. When 50000 cells/well are added to CXADR coated plates (4 µg/mL and 100 µL/well), approximately 20% - 50% will adhere specifically after 60 minutes at 37°C.

Target/Specificity
CXADR /CAR**Application Notes**

Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

Format
Lyophilized**Storage**

-20°C; Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally Mannitol or Trehalose is added as protectants before lyophilization.

Human CellExp CXADR /CAR, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Human CellExp CXADR /CAR, human recombinant protein - Images

Human CellExp CXADR /CAR, human recombinant protein - Background

Coxsackie virus and adenovirus receptor (CXADR) also known as CAR, is a type I transmembrane glycoprotein for group B coxsackie viruses and subgroup C adenoviruses, and belongs to the CTX family of the Ig superfamily. CAR is strongly expressed in the developing central nervous system. It functions as a homophilic and also as a heterophilic cell adhesion molecule through its interactions with extracellular matrix glycoproteins such as: fibronectin, agrin, laminin-1 and tenascin-R. Human CXADR protein contains a signal sequence, a extracellular domain (ECD) with a V type (D1) and a C2 type (D2) Iglike domain, a transmembrane segment and a intracellular domain. D1 is thought to be responsible for homodimer formation in trans within tight junctions, and is necessary and sufficient for adenovirus binding. Variants of CXADR are attached to the cell membrane by a GPI-anchor.

Human CellExp CXADR /CAR, human recombinant protein - References

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Bowles K.R.,et al.Hum. Genet. 105:354-359(1999).
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