

CAR polyclonal antibody

Catalog: BCP00328

Host: Rabbit

Reactivity: Human,Pig

BackGround:

The coxsackie virus and adenovirus receptor (CXADR, CAR) is a highly conserved, single-transmembrane glycoprotein and the primary receptor to mediate cellular attachment and infection of coxsackie B viruses and most adenoviruses. The CAR protein contains a pair of Ig-like domains within the amino-terminal extracellular domain and a carboxyl-terminal PDZ motif. Research studies indicate that CAR is a tight junction protein that associates with the ZO-1 scaffold protein and promotes both cell adhesion and restriction of solute and ion movement between cells. Endogenous CAR is targeted to the basolateral plasma membrane by a tyrosine-based basolateral sorting signal and clathrin adaptors AP-1A and AP-1B. CAR binds junctional adhesion molecule L (JAML) on epithelial cells and neutrophils where it activates PI3K and downstream MAPK kinases to stimulate epithelial $\gamma\delta$ T cell proliferation and increase production of TNF α and keratinocyte growth factor. As a result, the CAR protein plays a potentially critical role in adenoviral gene therapy, immunity, wound repair, inflammation, and cancer therapy. Additional studies demonstrate that CAR is essential in regulating squamous carcinoma cell growth.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 50 kDa

Swiss-Prot:

P78310

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum

by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:1000~1:2000

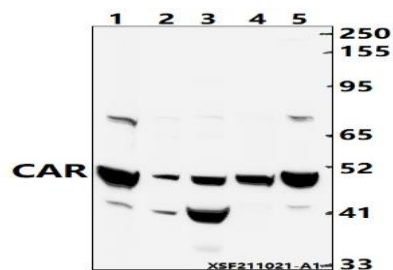
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

CAR polyclonal antibody detects endogenous levels of CAR protein.

DATA:



Western blot (WB) analysis of CAR polyclonal antibody at 1:1000 dilution

Lane1:EC9706 whole cell lysate(40ug)

Lane2:The Lung tissue lysate of Pig(40ug)

Lane3:The Heart tissue lysate of Pig(40ug)

Lane4:LOVO whole cell lysate(40ug)

Lane5:HepG2 whole cell lysate(20ug)

Note:

For research use only, not for use in diagnostic procedure.