

Anti-Human CXADR Antibody [PSH17-46] - BSA and Azide free (Capture)

HA725293



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	ELISA(Cap)
Clone number:	PSH17-46

Description: Component of the epithelial apical junction complex that may function as a homophilic cell adhesion molecule and is essential for tight junction integrity. Also involved in transepithelial migration of leukocytes through adhesive interactions with JAML a transmembrane protein of the plasma membrane of leukocytes. The interaction between both receptors also mediates the activation of gamma-delta T-cells, a subpopulation of T-cells residing in epithelia and involved in tissue homeostasis and repair. Upon epithelial CXADR-binding, JAML induces downstream cell signaling events in gamma-delta T-cells through PI3-kinase and MAP kinases. It results in proliferation and production of cytokines and growth factors by T-cells that in turn stimulate epithelial tissues repair.

Immunogen: Recombinant protein within Human CXADR aa 20-237 (HA211206)

Positive control: Recombinant Human CXADR protein (HA211206).

Subcellular location: Cell junction, Cell membrane, Secreted.

Database links: SwissProt: P78310 Human

Recommended Dilutions:

ELISA(Cap) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH17-47] to Human CXADR antibody (Detector) (HA725294) and Recombinant Human CXADR protein (HA211206) as the standard. The reference range value is 23.4-3,000 pg/mL.

Storage Buffer: 1*PBS (pH7.4).

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

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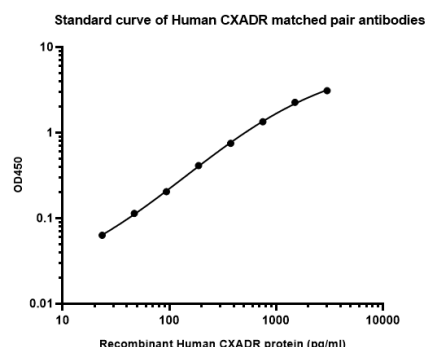
Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

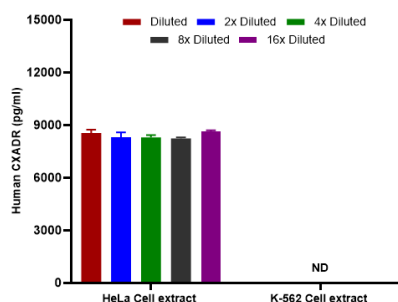
Fig1: Sandwich ELISA analysis of Human CXADR matched pair antibodies

Capture: HA725293, Human CXADR Rabbit mAb [PSH17-46]

Detector: HA725294, Human CXADR Rabbit mAb [PSH17-47]



Elisa assay was performed by coating wells of a 96-well plate with 100 μ l per well of capture antibody (HA725293) diluted in carbonate/bicarbonate buffer, at a concentration of 2 μ g/mL overnight at 4°C. Wells of the plate were washed, blocked with 150 μ l 0.05% tween-20 1% BSA blocking buffer, and incubated with serial diluted Recombinant Human CXADR protein (HA211206) starting from 3,000 pg/ml to 0 pg/ml and detect antibody (HA725294, Biotin, 0.2 μ g/ml) for 1 hour at 30°C with shaking. Then the plate was washed and incubated with 100 μ l per well of SA-HRP for 0.5 hour at 30°C with shaking. Detection was performed using an Ultra TMB Substrate for 10 minutes at room temperature in the dark. The reaction was stopped with sulfuric acid and absorbances were read on a spectrophotometer at 450 nm.

**Fig2:** Interpolated concentrations of native CXADR in A549 and K-562 Cell extract samples based on a 1,000 μ g/ml extract load.

Capture: HA725293, Human CXADR Rabbit mAb [PSH17-46]

Detector: HA725294, Human CXADR Rabbit mAb [PSH17-47]

Interpolated concentration of native CXADR was measured in duplicate at different sample concentrations. The interpolated dilution factor corrected values were plotted (mean $\pm$ SD, n=2). The mean CXADR concentration was determined to be 8,412 pg/mL in HeLa Cell extract and undetectable in K-562 Cell extract.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Cohen C.J., Shieh J.T.C., Pickles R.J., Okegawa T., Hsieh J.-T., Bergelson J.M. The coxsackievirus and adenovirus receptor is a transmembrane component of the tight junction. Proc. Natl. Acad. Sci. U.S.A. 98:15191-15196 (2001)
2. Walters R.W., Freimuth P., Moninger T.O., Ganske I., Zabner J., Welsh M.J. Adenovirus fiber disrupts CAR-mediated intercellular adhesion allowing virus escape. Cell 110:789-799 (2002)

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