

Anti-Human Nectin-4 Antibody [PSH12-57] - BSA and Azide free (Capture)

HA723470



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	ELISA(Cap)
Clone number:	PSH12-57

Description: This gene encodes a member of the nectin family. The encoded protein contains two immunoglobulin-like (Ig-like) C2-type domains and one Ig-like V-type domain. It is involved in cell adhesion through trans-homophilic and -heterophilic interactions. It is a single-pass type I membrane protein. The soluble form is produced by proteolytic cleavage at the cell surface by the metalloproteinase ADAM17/TACE. The secreted form is found in both breast tumor cell lines and breast tumor patients. Mutations in this gene are the cause of ectodermal dysplasia-syndactyly syndrome type 1, an autosomal recessive disorder. Alternatively spliced transcript variants have been found but the full-length nature of the variant has not been determined. Seems to be involved in cell adhesion through trans-homophilic and -heterophilic interactions, the latter including specifically interactions with NECTIN1. Does not act as receptor for alpha-herpesvirus entry into cells. (Microbial infection) Acts as a receptor for measles virus.

Immunogen: Recombinant protein within Human Nectin-4 aa 32-349 (HA210883).

Positive control: Recombinant Human Nectin-4 protein (HA210883).

Subcellular location: Cell membrane Curated, Cell junction, adherens junction, Secreted.

Database links: SwissProt: Q96NY8 Human

Recommended Dilutions:

ELISA(Cap) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH12-58] to Human Nectin-4 antibody (Detector) (HA723471) and Recombinant Human Nectin-4 protein (HA210883) as the standard. The reference range value is 39.1-5,000 pg/mL.

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

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

Purity: Protein A affinity purified.

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Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

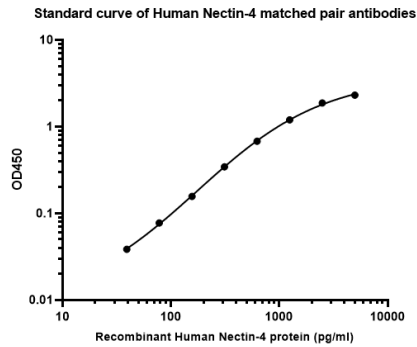
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Images

Fig1: Sandwich ELISA analysis of human Nectin-4 matched pair antibodies

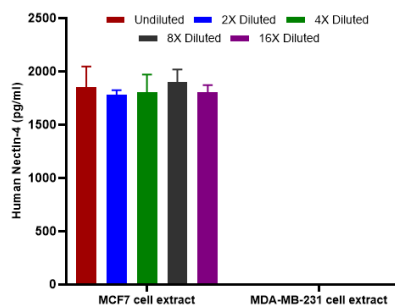
Capture: HA723470, Human Nectin-4 Rabbit mAb [PSH12-57]

Detector: HA723471, Human Nectin-4 Rabbit mAb [PSH12-58]



Elisa assay was performed by coating wells of a 96-well plate with 50 μ l per well of capture antibody (HA723470) diluted in carbonate/bicarbonate buffer, at a concentration of 2 μ g/ml overnight at 4 $^{\circ}$ 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 Nectin-4 protein (HA210883) starting from 5,000 pg/ml to 0 pg/ml and detect antibody (HA723471, Biotin, 0.2 μ g/ml) for 1 hour at 30 $^{\circ}$ C with shaking. Then the plate was washed and incubated with 50 μ l per well of SA-HRP for 0.5 hour at 30 $^{\circ}$ 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 Nectin-4 in MCF7 and MDA-MB-231 extract samples based on a 1,000 μ g/ml extract load.



Capture: HA723470, Human Nectin-4 Rabbit mAb [PSH12-57]

Detector: HA723471, Human Nectin-4 Rabbit mAb [PSH12-58]

The concentrations of Nectin-4 were measured in triplicates, interpolated from the Nectin-4 standard curve and corrected for sample dilution. Undiluted samples are MCF7 extract 100% and MDA-MB-231 extract 50%. The interpolated dilution factor corrected values are plotted (mean \pm SD, n=3). The mean Nectin-4 concentration was determined to be 1,829 pg/ml in MCF7 extract and undetectable in MDA-MB-231 extract.

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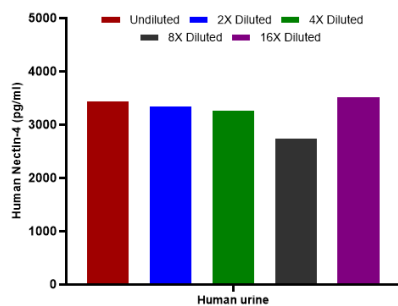


Fig3: Interpolated concentrations of native Nectin-4 in human urine samples.

Capture: HA723470, Human Nectin-4 Rabbit mAb [PSH12-57]
 Detector: HA723471, Human Nectin-4 Rabbit mAb [PSH12-58]

The concentrations of Nectin-4 were interpolated from the Nectin-4 standard curve and corrected for sample dilution. Undiluted samples are human urine 50%. The mean Nectin-4 concentration was determined to be 3,260 pg/ml in human urine.

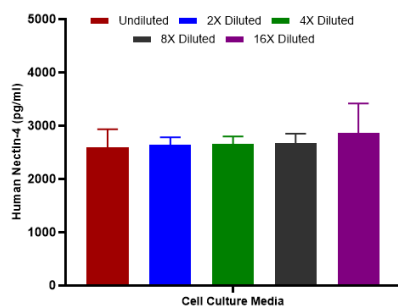


Fig4: Interpolated concentrations of spiked Nectin-4 in human cell culture media samples.

Capture: HA723470, Human Nectin-4 Rabbit mAb [PSH12-57]
 Detector: HA723471, Human Nectin-4 Rabbit mAb [PSH12-58]

The concentrations of Nectin-4 were measured in duplicates, interpolated from the Nectin-4 standard curves and corrected for sample dilution. Undiluted samples are as follows: cell culture media 50%. The interpolated dilution factor corrected values are plotted (mean +/- SD, n=2).

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

Background References

1. Klümper N et al. Membranous NECTIN-4 Expression Frequently Decreases during Metastatic Spread of Urothelial Carcinoma and Is Associated with Enfortumab Vedotin Resistance. Clin Cancer Res. 2023 Apr
2. Wong JL et al. Targeting nectin-4 by antibody-drug conjugates for the treatment of urothelial carcinoma. Expert Opin Biol Ther. 2021 Jul

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