

Biotin Conjugated Anti-Human CD38 Antibody [PSH24-45] - Detector

HA725477B



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	ELISA(Det), ELISA
Clone number:	PSH24-45

Description: CD38 is a type II integral membrane glycoprotein which is present on early B and T cell lineages and activated B and T cells but is absent from most mature resting peripheral lymphocytes. CD38 is also found on thymocytes, pre-B cells, germinal center B cells, mitogen-activated T cells, monocytes and Ig-secreting plasma cells. CD38 acts as a NAD glycohydrolase in T lymphocytes. On hematopoietic cells CD38 induces activation, proliferation, and differentiation of mature T and B cells and mediates apoptosis of myeloid and lymphoid progenitor cells. In addition to acting as a signaling receptor, CD38 is also an enzyme capable of producing several calcium-mobilizing metabolites, including cyclic adenosine diphosphate ribose (cADPR). CD38 also plays a role in maintaining survival of an invariant NK T (iNKT) cell subset that preferentially contributes to the maintenance of immunological tolerance.

Conjugate: Biotin-conjugated

Positive control: Recombinant Human CD38 protein (HA211487).

Subcellular location: Membrane.

Database links: SwissProt: P28907 Human

Recommended Dilutions:

ELISA(Det) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH24-44] to Human CD38 (Capture) (HA725476) and Recombinant Human CD38 protein (HA211487) as the standard. The reference range value is 7.8-1,000 pg/mL.

ELISA Use at an assay dependent concentration.

Storage Buffer: 1*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.05% Proclean 300.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term.

Purity: Protein A affinity purified.

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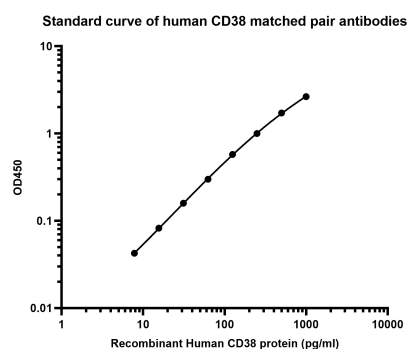
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Images

Fig1: Sandwich ELISA analysis of Human CD38 matched pair antibodies

Capture: HA725476, Human CD38 Rabbit mAb [PSH24-44]

Detector: HA725477, Human CD38 Rabbit mAb [PSH24-45]

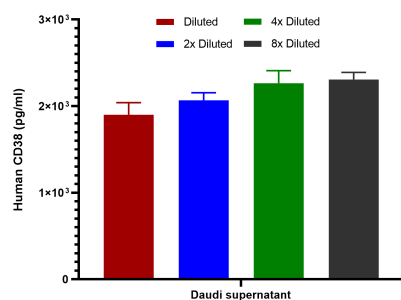


Elisa assay was performed by coating wells of a 96-well plate with 100 μ l per well of capture antibody (HA725476) diluted in carbonate/bicarbonate buffer, at a concentration of 2 μ g/ml overnight at 4°C. Wells of the plate were washed, blocked with 150 μ l 0.05% tween-20 1% BSA blocking buffer, and incubated with serial diluted Recombinant Human CD38 protein (HA211487) starting from 1,000 pg/ml to 0 pg/ml and detect antibody (HA725477, 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 CD38 in Daudi cell culture supernatant.

Capture: HA725476, Human CD38 Rabbit mAb [PSH24-44]

Detector: HA725477, Human CD38 Rabbit mAb [PSH24-45]



Interpolated concentration of native CD38 was measured in duplicate at different sample concentrations and interpolated from the CD38 standard curves. The interpolated dilution factor corrected values were plotted (mean \pm SD, n=2). The mean Daudi concentration was determined to be 2,134 pg/ml in CD38 cell culture supernatant.

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

Background References

1. Yang Q et al. NADase CD38 is a key determinant of ovarian aging. Nat Aging. 2024 Jan
2. Yu S et al. CD38-Targeting Peptide Vaccine Ameliorates Aging-Associated Phenotypes in Mice. Aging Cell. 2025 Sep

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