

Anti-Human BCMA Antibody [PSH13-18] - BSA and Azide free (Capture)

HA725082



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	ELISA(Cap)
Clone number:	PSH13-18

Description: B-cell maturation antigen (BCMA or BCM), also known as tumor necrosis factor receptor superfamily member 17 (TNFRSF17), is a protein that in humans is encoded by the TNFRSF17 gene. TNFRSF17 is a cell surface receptor of the TNF receptor superfamily which recognizes B-cell activating factor (BAFF). Serum B-cell maturation antigen (sBCMA) is the cleaved form of BCMA, found at low levels in the serum of normal patients and generally elevated in patients with multiple myeloma (MM). The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor is preferentially expressed in mature B lymphocytes, and may be important for B cell development and autoimmune response. This receptor has been shown to specifically bind to the tumor necrosis factor (ligand) superfamily, member 13b (TNFSF13B/TALL-1/BAFF), and to lead to NF-kappaB and MAPK8/JNK activation. This receptor also binds to various TRAF family members, and thus may transduce signals for cell survival and proliferation.

Immunogen: Recombinant protein within Human BCMA aa 1-54 (HA210968).

Positive control: Recombinant Human BCMA protein (HA210968).

Subcellular location: Cell membrane, Endomembrane system.

Database links: SwissProt: Q02223 Human

Recommended Dilutions:

ELISA(Cap) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH13-19] to Human BCMA antibody (Detector) (HA725083) and recombinant Human BCMA protein (HA210968) as the standard. The reference range value is 31.2-4,000 pg/mL.

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

Storage Instruction: Store at 2-8°C. Avoid freeze.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

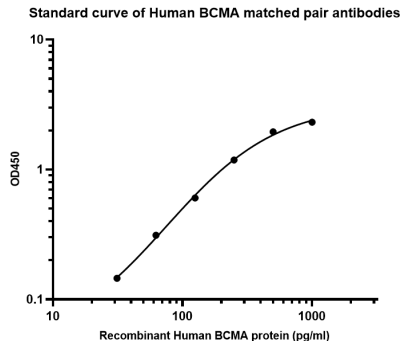
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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Sandwich ELISA analysis of Human BCMA matched pair antibodies

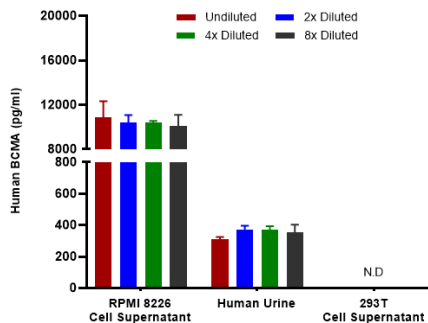
Capture: HA725082, Human BCMA Rabbit mAb [PSH13-18]
Detector: HA725083, Human BCMA Rabbit mAb [PSH13-19]



Elisa assay was performed by coating wells of a 96-well plate with 100 μ l per well of capture antibody (HA725082) diluted in carbonate/bicarbonate buffer, at a concentration of 2ug/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 BCMA protein (HA210968) starting from 4,000 pg/ml to 0 pg/ml and detect antibody (HA725083, Biotin, 0.2 μ g/ml) for 1 hour at 30 $^{\circ}$ 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 $^{\circ}$ 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 BCMA in human samples.

Capture: HA725082, Human BCMA Rabbit mAb [PSH13-18]
Detector: HA725083, Human BCMA Rabbit mAb [PSH13-19]



Interpolated concentration of native BCMA was measured in duplicate at different sample concentrations. The interpolated dilution factor corrected values were plotted (mean $\pm$ SD, n=2). The mean BCMA concentration was determined to be 10,453 pg/mL in RPMI 8226 and 351 pg/ml in human urine. There was no detectable signal in 293T cell culture supernatant.

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

Background References

1. Yu B et al. BCMA-targeted immunotherapy for multiple myeloma. J Hematol Oncol. 2020 Sep
2. Sun F et al. Bispecific BCMA/CD24 CAR-T cells control multiple myeloma growth. Nat Commun. 2024 Jan

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