

For Research Use Only

Recombinant Human BCMA/TNFRSF17 protein (hFc Tag)



Catalog Number: Eg0812

Basic Information

ED50:
2-8 ng/mL

GenID:
608

Species:
Human

Accession:
Q02223

Purity:
>95 %, SDS-PAGE

Technical Specifications

Purity:
>95 %, SDS-PAGE

Endotoxin Level:
<1.0 EU/ μ g protein, LAL method

Source:
HEK293-derived Human BCMA protein Met1-Ala54 (Accession# Q02223) with a human IgG1 Fc tag at the C-terminus.

Predicted Molecular Mass:
32.4 kDa

SDS-PAGE:
35-40 kDa

Formulation:
Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Immobilized Human BAFF (GST tag) at 1 μ g/mL (100 μ L/well) can bind Human BCMA (hFc tag) with a linear range of 2-8 ng/mL.

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- 12 months from the date of receipt, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

BCMA (B cell maturation antigen), also known as TNFRSF17, is 20.2-kDa type III transmembrane glycoprotein and is a member of the TNF-receptor superfamily. This receptor is preferentially expressed in mature B lymphocytes and plasma cells, which may be important for B cell development and autoimmune response (PMID: 32943087; 9846698). BCMA has two agonist ligands: a proliferation-inducing ligand (APRIL) and BAFF. When BCMA binds to APRIL, it transmits signals of cell survival and proliferation (PMID: 27127303); when BCMA binds to BAFF, it mediates the activation of NF- κ B and MAPK8/JNK (PMID: 36140254). It has been found that the overexpression and activation of BCMA are associated with multiple myeloma (MM) in preclinical models and humans, supporting its potential utility as a therapeutic target for MM (PMID: 32055000; 32943087).

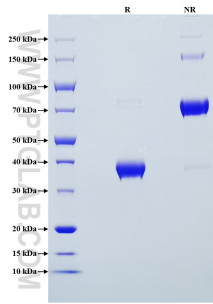
References

1. Bo Yu et al (2020). J Hematol Oncol. Sep 17;13(1):125.
2. C Madry et al (1998). Int Immunol. Nov;10(11):1693-702.
3. Yu-Tzu Tai et al (2016). Blood. Jun 23;127(25):3225-36.
4. Fabrice Jardin (2022). Biomedicines. Sep 1;10(9):2153.
5. Nina Shah et al (2020). Leukemia. Apr;34(4):985-1005.

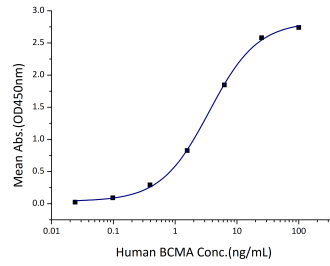
Synonyms

BCM, BCMA, CD269, TNFRSF13A, TNFRSF17

Selected Validation Data



Purity of Recombinant Human BCMA was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



Immobilized Human BAFF (GST tag) at $1 \mu\text{g/mL}$ ($100 \mu\text{L/well}$) can bind Human BCMA (hFc tag) with a linear range of 2-8 ng/mL.

For technical support and original validation data for this product please contact

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