

11-5503: Goat Anti-Mouse BCMA Antibody(Discontinued)

Clonality :	Polyclonal
Application :	Functional Assay,ELISA,WB
Reactivity :	Mouse
Gene :	Tnfrsf17
Gene ID :	21935
Uniprot ID :	O88472
Format :	Purified
Alternative Name :	B-cell maturation protein, Bcm, Bcma, CD269, Tnfrsf17, Tumor necrosis factor receptor superfamily member 17
Isotype :	Goat IgG
Immunogen Information :	NS0-Derived Recombinant Mouse BCMA Extracellular Domain

Description

Specificity:

Goat Anti-Mouse B Cell Maturation Protein (BCMA) recognizes Mouse BCMA. This antigen affinity purified polyclonal antibody was purified using a proprietary chromatographic technique that includes covalently immobilizing the antigen proteins or peptides to agarose based beads. This purification method enhances specificity, reduces nonspecific binding of extraneous IgG and provides you with the most reliable reagent available for your early discovery research.

Background:

Members in the TNF superfamily regulate immune responses and induce apoptosis. Two novel members in the TNF family were recently identified and designated BAFF/BLyS/TALL-1/THANK/zTNF41-4 and April/TALL-2, respectively. BAFF was characterized as a B cell activator since it induced B cell proliferation and immunoglobulin secretion. April regulates immunological and non-immunological cell growth. Three receptors, BCMA (for B cell maturation protein), TACI, and BAFF-R, for BAFF were recently identified. BCMA, like TACI, binds BAFF and April. BAFF and its receptors induce B cell development and survival, activate NF- κ B and c-jun N-terminal kinase, and are involved in B cell associated autoimmune diseases.

BCMA expression has been found in immune organs and mature B cell lines. Although some expression has been observed at the cell surface, BCMA appears to be localized to the Golgi compartment. The binding of BCMA to APRIL or BAFF has been shown to stimulate IgM production in peripheral blood B cells and increase the survival of cultured B cells. This data suggests that BCMA may play an important role in B cell development, function and regulation. Mouse and human BCMA share 62% amino acid identity.

Product Info

Amount :	25 μ g / 100 μ g
Purification :	This antigen affinity purified polyclonal antibody has been 0.2 μ m filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 - 7.3 containing 5.0% w/v trehalose with no calcium, magnesium, or preservatives present.
Content :	We suggest aseptically reconstituting this lyophilized, antigen affinity purified polyclonal antibody with 0.5 μ l of sterile 1X PBS pH 7.2-7.3. This will result in a final antibody concentration of 0.2 mg/ml. Small pack size is supplied as a filtered solution in PBS.
Storage condition :	The lyophilized antigen affinity purified polyclonal antibody can be stored desiccated at -20°C to -70°C for twelve months from date of receipt. The reconstituted antibody can be stored for at least four weeks at 2-8°C. For long-term storage of the reconstituted antibody, aseptically aliquot into working volumes and store at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. No detectable loss of activity was observed after six months.

Application Note

Recommended dilutions: ELISA: 0.5-1.0 µg/ml, Western Blotting: 0.1-0.2 µg/ml, Blocking: 1- 4 µg/ml. However, this need to be optimized based on the research applications.