

Product datasheet for **TA399793**

TNFRSF17 Mouse Monoclonal Antibody [Clone ID: I09]

Product data:

Product Type:	Primary Antibodies
Clone Name:	I09
Applications:	FC
Reactivity:	Human, Monkey
Modifications:	This chimeric mouse antibody was made using the variable domain sequences of the original Human IgG1 format for improved compatibility with existing reagents assays and techniques.
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	The original antibody 15B2 was generated by immunizing six week old female Ablexis transgenic mice with both rHu BCMA-Fc and cynomolgus BCMA-Fc or adherent 293 cells (Ad293) expressing either Hu BCMA or Cyno BCMA. The original mouse antibody 15B2 was mutated to a germline form using primers designed to mutate four non-germline residues in 15B2, which resulted in the generation of this lead optimized antibody.
Specificity:	This antibody binds human and cynomolgus monkey BCMA. It acts as a receptor for TNFSF13B/BlyS/BAFF and TNFSF13/APRIL. BCMA expression is highest on terminally differentiated B cells. BCMA is involved in mediating the survival of plasma cells for maintaining long-term humoral immunity. It also activates NF-kappa-B and JNK. The expression of BCMA has been linked to a number of cancers, autoimmune disorders, and infectious diseases.

The binding affinity of this antibody to monomeric soluble human BCMA was determined using ProteOn™ XPR36 instrument. It was reported that the original human IgG1 version of the antibody binds soluble human BCMA with an affinity of $k_d = 9.82\text{nM}$. The binding of this antibody to membrane bound human BCMA was evaluated using flow cytometry in multiple myeloma and plasma cell leukemia cell lines that endogenously express BCMA (NCI-H929, MM.1S cell lines and Ad293 expressing human BCMA). This antibody was also used in the generation of a antibody-drug conjugate (ADC) comprising a BCMA monoclonal antibody like I09 conjugated to a cytotoxin to check its anti-tumor effects in the treatment of multiple myeloma (US10988546).



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Formulation:	PBS with 0.02% Proclin 300.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.
Database Link:	<u>Q02223</u>
Synonyms:	15B2; B-cell maturation protein; BCM; CD269; IO9; TNFRSF17; Tumor necrosis factor receptor superfamily member 17