

Human BCMA/TNFRSF17 Alexa Fluor® 594-conjugated Antibody

Monoclonal Mouse IgG₁ Clone # 1004024

Catalog Number: FAB1932T

100	μο

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human BCMA/TNFRSF17 in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 1004024
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human BCMA /TNFRSF17 Met1-Ala54 Accession # Q02223
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide.
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Tiease Note. Optimal dilutions should be determined by each	Note: Opininal alliations should be determined by each habitation of each application. Select an alliance in the rechilities in				
	Recommended Concentration	Sample			
Flow Cytometry	0.25-1 µg/10 ⁶ cells	RPMI8226 human myeloma cell line			

PREPARATION AND STORAGE

Sŀ	qqiı	ina '	The product is sl	nipped with polar	packs. U	lpon receipt	t. store it immediatel	v at the tem	perature recommended below.

Stability & Storage Protect from light. Do not freeze.

• 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

BCMA, B cell maturation antigen, is a member of the TNF receptor superfamily. It has been designated TNFRSF17. BCMA is a type III membrane protein containing one extracellular cysteine rich domain. Within the TNFRSF, it shares the highest homology with TACI. BCMA and TACI have both been shown to bind to APRIL and BAFF, members of the TNF ligand superfamily. 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. Human BCMA is a 184 amino acid (aa) protein consisting of a 54 aa extracellular domain, a 23 aa transmembrane domain, and a 107 aa intracellular domain. Mouse and human BCMA share 62% amino acid identity.

References:

- 1. Madry, C. et al. (1998) Int. Immunol. 10:1693.
- 2. Gras, M. et al. (1995) Int. Immunol. 7:1093.
- 3. Kwon, B. et al. (1999) Curr. Opin. Immunol. 11:340.
- 4. Marsters, S. et al. (2000) Curr. Biol. 10:785.
- 5. Thompson, J. et al. (2000) J. Exp. Med. 192:129.

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