PERFORMANCE DATA SHEET 2331 Monoclonal anti-human CD272(BTLA)/APC*



mAb name/Clone: ANC6E9 *Isotype:* Mouse IgG1κ *Immunogen:* Recombinant soluble human CD272

CATALOG#: 272-060 QUANTITY: 120 tests WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5 x 105-cell test)

INFORMATION: Human CD272 (BTLA, B and T Lymphocyte Attenuator) is a member of the Immunoglobulin superfamily and has sequence homology to PD-1 and CTLA4. It is expressed on T and B lymphocytes and other hemopoetic lineages. Engagement of this molecule by its ligand, CD270(HVEM, a TNF superfamily member) can down regulate activated T and B cell responses. CD272 levels on antigen specific CD8+ T cells have been reported to decrease in viral specific, but not melanoma specific activated lines (1). Polymorphism of the CD272 molecule has been linked to rheumatoid arthritis (3).

Antibody from clone ANC6E9 binds to CD272 on the cell surface of human PBMC in Flow cytometry and to recombinant CD272-muIg (cat #542-020) in EIA. This antibody *blocks* binding of Biotinylated CD270(HVEM)-muIg(cat #531-030) to CD272-muIg in EIA. Antibodies ANC6E9 and ANC5A5(cat #372-020) each bind a distinct epitope of CD272 and are suitable as a matched pair for EIA using ANC6E9 as capture and Biotinylated ANC5A5(cat #372-030) as detector.

References: 1) Derre' L, DE Speiser, et al. (2010) *J Clin Invest* **120**(1):157-167. <u>2) Otsuki N, Azuma M, et al. (2006) *Biochem Biophys Res Com* **344**(4): 1121-1127. 3) Lin SC, Chan CH, et al. (2006) J Biomed Sci 13(6): 853-860. 4) Pasero C, D Olive, et al. (2009) *Curr Mol Med* **9**(7): 911-927. 5) Gavrieli M, KM Murphy, et al. (2006) *Adv Immunol* **92**: 152-185.</u>

STORAGE CONDITIONS: Store at 2 - 5^oC. Do not freeze! Protect from light.

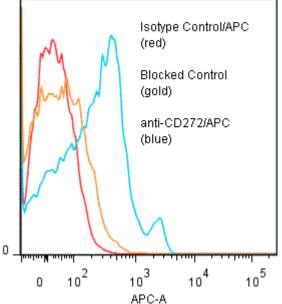
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:______

BUFFER: 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Protein A purified antibody from tissue culture supernatant was conjugated to cross-linked Allophycocyanin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at **0.5 mg/ml** with an A_{650}/A_{280} ratio of 1.38.

PERFORMANCE: Five x 10^5 human peripheral blood mononuclear cells (PBMC) per tube were washed and incubated 45 minutes on ice with 80 µl of anti-CD272/APC at a **1:50** dilution (10 µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.08** log₁₀ fluorescent units when compared to Mouse IgG1/APC Isotype Control (cat #278-060). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD272 antibody (Catalog #272-020).

Binding of anti-CD272(BTLA)/APC to human PBMC



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