

Mouse anti-Human CD272 Monoclonal Antibody | anti-CD272 antibody

anti-human CD272 (BTLA)-FITC

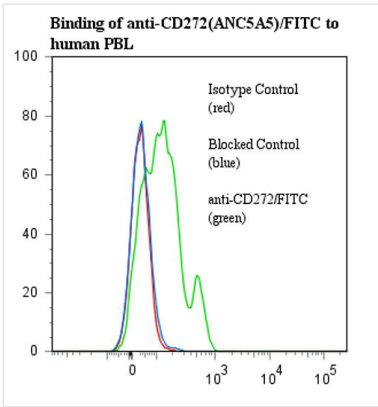
CATALOG # AAA78171	HOST Mouse	REACTIVITY Human	APPLICATIONS ELISA, Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD272; Monoclonal Antibody; anti-human CD272 (BTLA)-FITC; Monoclonal anti-human CD272(BTLA)/FITC; anti-CD272 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1k
Clone Number	ANC5A5
Form/Format	50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA.
Concentration	Volume: 0.2ml (varies by lot)
Applicable Applications for anti-CD272 antibody	ELISA, FCM/FACS (Flow Cytometry)
Performance	Five x 10 ⁵ ficoll prepared human peripheral blood mononuclear cells (PBMC) per tube were pelleted and pre incubated 5 minutes with 20ul of human IgG at 300ug/ml, after which they were washed and incubated 45 minutes on ice with 80 ul of anti-CD272/FITC at a 1:50 dilution (5 ug/ml). They were then washed three times, fixed and analyzed by FACS using a lymphoid gate. Cells stained positive with a mean shift of 0.54 log ₁₀ fluorescent units when compared to a Mouse IgG1/FITC negative control at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 ul of 0.5 mg/ml anti-CD272 (clone ANC5A5) antibody.
Conjugation	FITC
Production	Protein A purified antibody from tissue culture supernatant was reacted with FITC. Unconjugated FITC was separated from antibody/FITC conjugate by desalting column. The antibody/FITC conjugate is at approximately 0.25 mg/ml with a Fluorescein/IgG molar ratio of 7.1.
Buffer	50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN ₃ (as a preservative).
Immunogen	Recombinant extracellular human CD272
Preparation and Storage	Store at 2 - 5 degree C. Do not freeze! Protect from light. Product should retain activity for at least 12 months after shipping date when stored as recommended.



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-CD272 antibody	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 ANC5A5 binds to CD272 on the cell surface of human PBMC in Flow cytometry and to recombinant CD272-mulg in EIA. This antibody does not block binding of Biotinylated CD270(HVEM)-mulg to CD272-mulg in EIA, but appears to enhance this interaction. Antibodies ANC6E9 and ANC5A5 each bind a distinct epitope of CD272 and are suitable as a matched pair for EIA using ANC6E9 as capture and Biotinylated ANC5A5 as detector.
References	1) Derre' L, DE Speiser, et al. (2010) J Clin Invest 120(1):157-167. 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.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.