

Anti-Human CD152 (CTLA-4) Purified

Catalog Number :14611-20

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Clone: BNI3

Format/Conjugate: Purified

Concentration: 0.5 mg/mL

Reactivity: Human

Laser: Not Applicable

Peak Emission: Not Applicable

Peak Excitation: Not Applicable

Filter: Not Applicable

Brightness (1=dim,5=brightest): Not Applicable

Isotype: Mouse IgG2a, kappa

Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.

Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.

Applications: FC, FA, IHC, IP

Description

The BNI3 monoclonal antibody specifically reacts with human CD152, the Cytotoxic T-Lymphocyte Antigen 4 (CTLA-4). CTLA-4 is expressed on activated CD28+ T cells, and binds the B7 family members B7-1 (CD80) and B7-2 (CD86). The structure of CTLA-4 is similar to the structure of CD28, but the two molecules seem to have opposite roles on the T lymphocytes. CTLA-4 inhibits the progression of T cell activation, while CD28 stimulates it. This result explains the stimulating role that the immobilization of BNI3 plays on the T lymphocytes proliferation induced by CD28.

Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. It is recommended that the reagent be titrated for optimal performance for each application.

References

1. Barclay, A. N., Brown, M. H., Law, S. A. K. A., McKnight, A. J., Tomlinson, M. G., van der Merwe, P. A. (1997).;The leucocyte antigen factsbook. Academic Press.
2. Lindsten, T., Lee, K. P., Harris, E. S., Petryniak, B., Craighead, N., Reynolds, P. J., ... Gray, G. S. (1993). Characterization of CTLA-4 structure and expression on human T cells.;The Journal of Immunology.;151(7), 3489-3499.
3. Kuiper, H. M., Brouwer, M., Linsley, P. S., Van Lier, R. A. (1995). Activated T cells can induce high levels of CTLA-4 expression on B cells.;The Journal of Immunology.;155(4), 1776-1783.