

## Anti-Human CD152 (CTLA-4) PE

Catalog Number :14611-60

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

### Product Information

**Clone:** BNI3

**Format/Conjugate:** PE

**Concentration:** 5 uL (0.5 ug)/test

**Reactivity:** Human

**Laser:** Blue (488nm), Yellow/Green (532-561nm)

**Peak Emission:** 578nm

**Peak Excitation:** 496nm

**Filter:** 585/40

**Brightness (1=dim,5=brightest):** 5

**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

### 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. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

### 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.