



# CD152 Antibody [BNI3]

Cat. No.: 76-842



## Ψ Specifications

<b>HOST SPECIES:</b>	Mouse
<b>SPECIES REACTIVITY:</b>	Human
<b>TESTED APPLICATIONS:</b>	Flow, Func, IHC, IP
<b>SPECIFICITY:</b>	The BNI3 monoclonal antibody specifically reacts with human CD152, the Cytotoxic T-Lymphocyte Antigen 4 (CTLA-4).

## Ψ Properties

<b>PURIFICATION:</b>	The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.
<b>CLONALITY:</b>	Monoclonal
<b>ISOTYPE:</b>	Mouse IgG2a, kappa
<b>CONJUGATE:</b>	Unconjugated
<b>PHYSICAL STATE:</b>	liquid
<b>BUFFER:</b>	Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.
<b>CONCENTRATION:</b>	batch dependent

<b>STORAGE CONDITIONS:</b>	The product should be stored undiluted at 4 °C and should be protected from prolonged exposure to light. Do not freeze.
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## Ψ Additional Info

<b>OFFICIAL SYMBOL:</b>	CTLA4
<b>ALTERNATE NAMES:</b>	CD, GSE, GRD4, ALPS5, CD152, CTLA-4, IDDM12, CELIAC3, CTLA4
<b>GENE ID:</b>	1493
<b>USER NOTE:</b>	Optimal dilutions for each application to be determined by the researcher.

## Ψ Background and References

<b>BACKGROUND:</b>	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.
<b>REFERENCES:</b>	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.

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