



CD152 Antibody [BNI3]

Cat. No.: 76-842



Ψ Specifications

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

Ψ Properties

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

STORAGE CONDITIONS:	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

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

Ψ Background and References

BACKGROUND:	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.
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.

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