



11-785-C025

## Monoclonal Antibody to CD152 Purified Antibody (0.025 mg)

Clone: BNI3

**Isotype:** Mouse IgG2a

Specificity: The mouse monoclonal antibody BNI3 recognizes human CD152 / CTLA4, an

approximately 45 kDa type I transmembrane protein serving as a negative

regulator of T cell responses.

Regulatory Status: RUO

Immunogen: Human CD152-IgG heavy chain fusion protein

Species Reactivity: Human

**Application:** Flow Cytometry

Application note: intracellular staining

Immunoprecipitation

Immunohistochemistry (frozen sections)

Immunocytochemistry

**Purity:** > 95% (by SDS-PAGE)

**Purification:** Purified by protein-A affinity chromatography

Concentration: 1 mg/ml

Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

Storage / Stability: Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial

label.

Expiration: See vial label

Lot Number: See vial label

Background: CD152 / CTLA-4 is a homodimeric transmembrane protein similar to CD28 and

binding the same ligands, i.e. CD80 (B7.1) and CD86 (B7.2), but with higher affinity. Unlike CD28 with important costimulating functions, CD152 acts as an important inhibitory receptor essential for modulation of the immune system. CD152 / CTLA-4 becomes transiently expressed on activated T cells and its malfunction can cause autoimmune diseases, such as insulin-dependent diabetes mellitus, Graves disease, Hashimoto thyroiditis, celiac disease, systemic lupus

erythematosus, or thyroid-associated orbitopathy.



## PRODUCT DATA SHEET

## References:

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\*Steiner K, Waase I, Rau T, Dietrich M, Fleischer B, Bröker BM: Enhanced expression of CTLA-4 (CD152) on CD4+ T cells in HIV infection. Clin Exp Immunol. 1999 Mar;115(3):451-7.

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