

Datasheet for ABIN5711614  
**anti-CTLA4 antibody (APC)**

3 Images



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## Overview

Quantity:	100 tests
Target:	CTLA4
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CTLA4 antibody is conjugated to APC
Application:	Flow Cytometry (FACS)

## Product Details

Immunogen:	Human CD152-IgG heavy chain fusion protein
Clone:	BNI3
Isotype:	IgG2a
Specificity:	The mouse monoclonal antibody BNI3 recognizes an extracellular domain of human CD152 / CTLA4, an approximately 45 kDa type I transmembrane protein serving as a negative regulator of T cell responses.
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

## Target Details

Target:	CTLA4
Alternative Name:	CD152 ( <a href="#">CTLA4 Products</a> )
Background:	Cytotoxic T-lymphocyte associated protein 4,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.,CTLA4, GSE, GRD4
Gene ID:	1493
UniProt:	<a href="#">P16410</a>
Pathways:	<a href="#">Cancer Immune Checkpoints</a>

## Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

## Handling

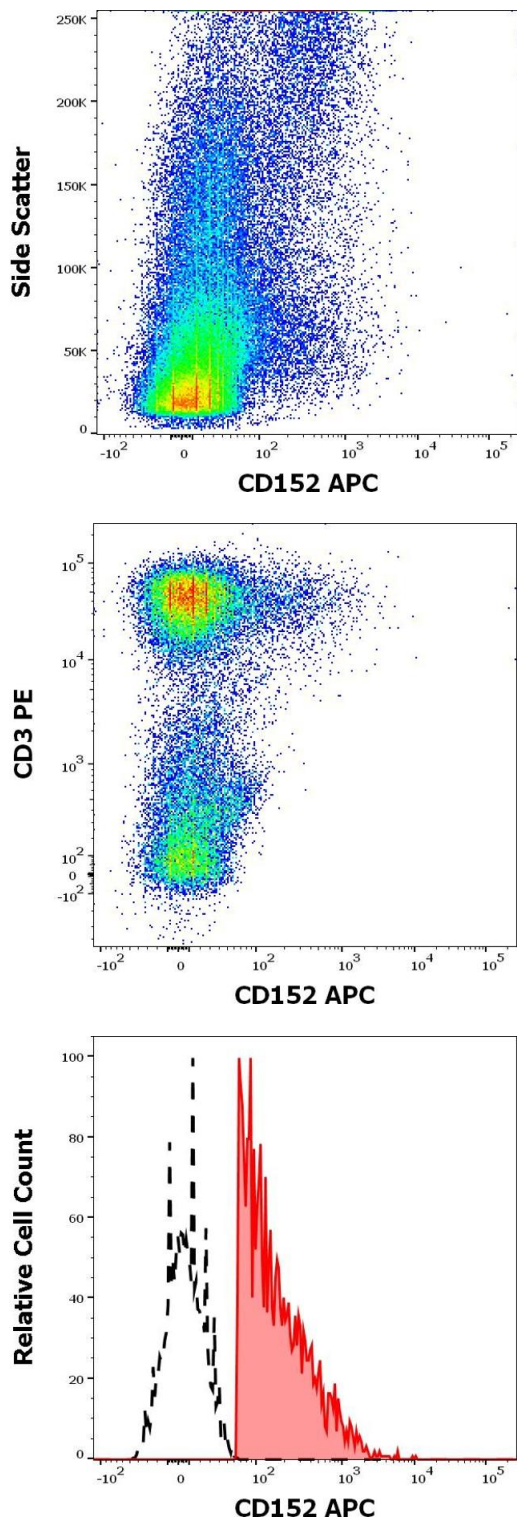
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.

Handling

Storage: 4 °C

Storage Comment: Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Images



Flow Cytometry

**Image 1.** Flow cytometry surface staining pattern of human PHA stimulated peripheral whole blood stained using anti-human CD152 (BNI3) APC antibody (10  $\mu$ L reagent / 100  $\mu$ L of peripheral whole blood).

Flow Cytometry

**Image 2.** Flow cytometry multicolor surface staining of human PHA stimulated lymphocytes stained using anti-human CD152 (BNI3) APC antibody (10  $\mu$ L reagent / 100  $\mu$ L of peripheral whole blood) and anti-human CD3 (UCHT1) PE antibody (20  $\mu$ L reagent / 100  $\mu$ L of peripheral whole blood).

Flow Cytometry

**Image 3.** Separation of human CD152 positive CD3 positive lymphocytes (red-filled) from CD152 negative CD3 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD152 (BNI3) APC antibody (10  $\mu$ L reagent / 100  $\mu$ L of peripheral whole blood).