

Datasheet for ABIN1981896
anti-CTLA4 antibody (PE)



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Overview

Quantity:	100 tests
Target:	CTLA4
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CTLA4 antibody is conjugated to PE
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 R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	CTLA4
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Target Details

Alternative Name:	CD152 (CTLA4 Products)
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:	P16410
Pathways:	Cancer Immune Checkpoints

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 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) 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:	Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label. Short-term exposure to room temperature should not affect the quality of the reagent. However, if reagent is stored under any conditions other than those specified, the conditions must be verified by the user.

Handling

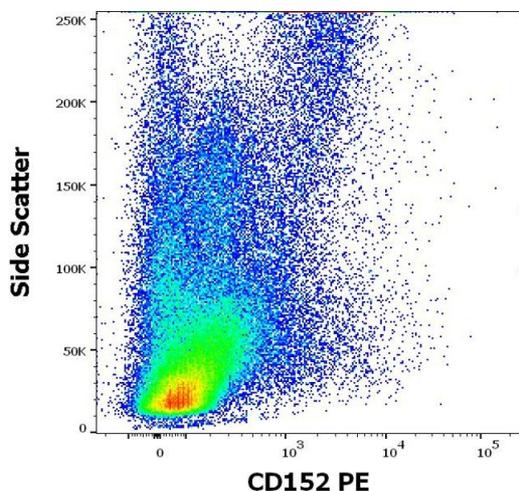
Storage: 4 °C

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

Publications

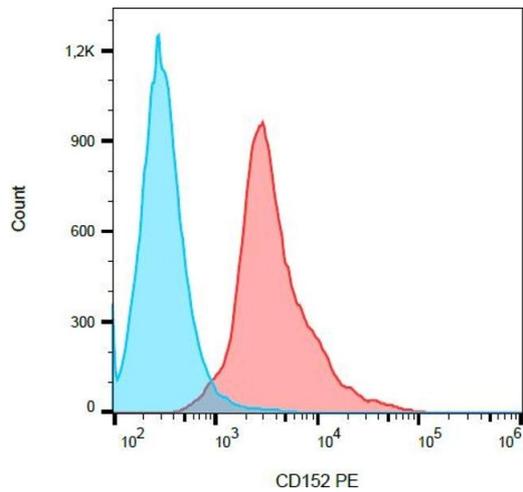
- Product cited in:
- Kraszula, Eusebio, Kupczyk, Kuna, Pietruczuk: "[The use of multi-color flow cytometry for identification of functional markers of nTregs in patients with severe asthma]." in: **Pneumonologia i alergologia polska**, Vol. 80, Issue 5, pp. 389-401, (2012) ([PubMed](#)).
- Chin, Chu, Chen, Hsu, Weng, Chu: "Site-directed in vitro immunization leads to a complete human monoclonal IgG4 lambda that binds specifically to the CDR2 region of CTLA-4 (CD152) without interfering the engagement of natural ligands." in: **BMC biotechnology**, Vol. 7, pp. 51, (2007) ([PubMed](#)).
- Steiner, Moosig, Csernok, Selleng, Gross, Fleischer, Bröker: "Increased expression of CTLA-4 (CD152) by T and B lymphocytes in Wegener's granulomatosis." in: **Clinical and experimental immunology**, Vol. 126, Issue 1, pp. 143-50, (2001) ([PubMed](#)).
- Steiner, Waase, Rau, Dietrich, Fleischer, Bröker: "Enhanced expression of CTLA-4 (CD152) on CD4+ T cells in HIV infection." in: **Clinical and experimental immunology**, Vol. 115, Issue 3, pp. 451-7, (1999) ([PubMed](#)).

Images



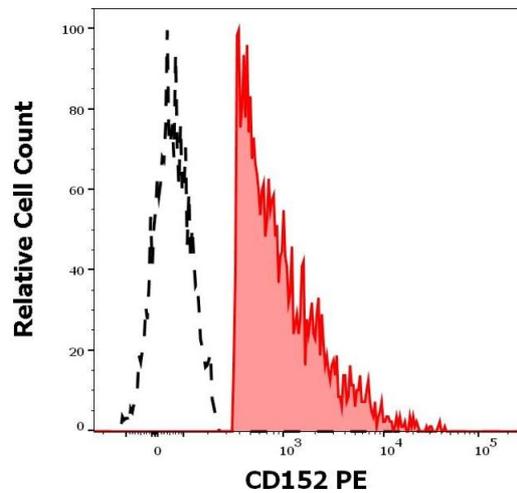
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human PHA stimulated peripheral whole blood stained using anti-human CD152 (BNI3) PE antibody (10 µL reagent / 100 µL of peripheral whole blood).



Flow Cytometry

Image 2. Flow cytometry analysis (surface staining) of PHA-activated (3 days) human PBMC with anti-human CD152 (BNI3) PE.



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 PHA stimulated peripheral whole blood stained using anti-human CD152 (BNI3) PE antibody (10 µL reagent / 100 µL of peripheral whole blood).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN1981896.