Datasheet for ABIN1111104

anti-HLA B7 antibody (PE)

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Overview

Quantity:	100 tests
Target:	HLA B7
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HLA B7 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Papain solubilised HLA-A2, B7
Clone:	BB7-1
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody BB7.1 recognizes an extracellular antigen of HLA-B7 antigen. Although highly specific, it can cross-react with HLA-B42 antigen.
Cross-Reactivity (Details):	Human, Non-Human Primates
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:	HLA B7

Target Details

Alternative Name:	HLA-B7 (HLA B7 Products)
Background:	HLA-B7 allele of human HLA class I major histocompatibility (MHC) antigen indicates higher risk of breast cancer and cervical cancer. Expression of HLA-B7 together with HLA-B27 is associated with increased susceptibility to spondyloarthropaties. Flow cytometry detection of these two alleles is being used to screen for patients, who suffer from inflammatory disorders affecting the sacroiliac and intervertebral joints, such as ankylosing spondylosis (AS). The HLA-B7 antigen (11 alleles) is expressed in 22 % of healthy Caucasian individuals.

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

Reconstitution:	No reconstitution is necessary.
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.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in:	Cortez-Gonzalez, Sidney, Adotevi, Sette, Millard, Lemonnier, Langlade-Demoyen, Zanetti: " Immunogenic HLA-B7-restricted peptides of hTRT." in: **International immunology**, Vol. 18, Issue

Publications

12, pp. 1707-18, (2006) (PubMed).

Hofmann, Glückmann, Kausche, Schmidt, Corvey, Lichtenfels, Huber, Albrecht, Karas, Herr: " Rapid and sensitive identification of major histocompatibility complex class I-associated tumor peptides by Nano-LC MALDI MS/MS." in: **Molecular & cellular proteomics : MCP**, Vol. 4, Issue 12, pp. 1888-97, (2005) (PubMed).

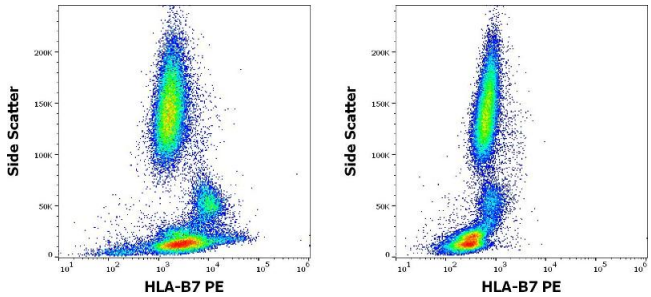
de la Salle, Saulquin, Mansour, Klayme, Fricker, Zimmer, Cazenave, Hanau, Bonneville, Houssaint, Lefranc, Naman: "Asymptomatic deficiency in the peptide transporter associated to antigen processing (TAP)." in: **Clinical and experimental immunology**, Vol. 128, Issue 3, pp. 525-31, (2002) (PubMed).

Rini, Selk, Vogelzang: "Phase I study of direct intralesional gene transfer of HLA-B7 into metastatic renal carcinoma lesions." in: **Clinical cancer research : an official journal of the American Association for Cancer Research**, Vol. 5, Issue 10, pp. 2766-72, (1999) (PubMed).

Trapani, Vaughan, Tait, McKenzie: "Immunoradiometric assay for the rapid detection of HLA-B27." in: **Immunology and cell biology**, Vol. 66 (Pt 3), pp. 215-9, (1991) (PubMed).

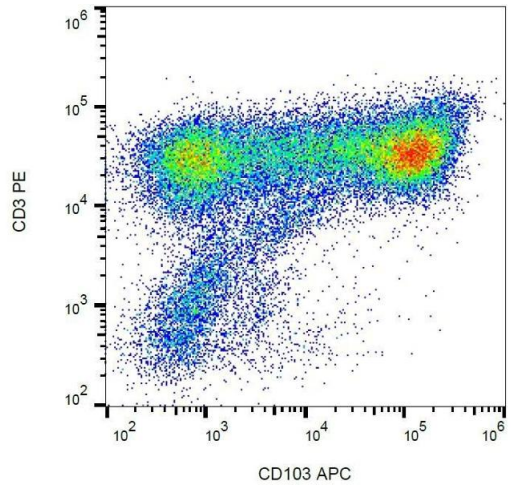
There are more publications referencing this product on: Product page

Images



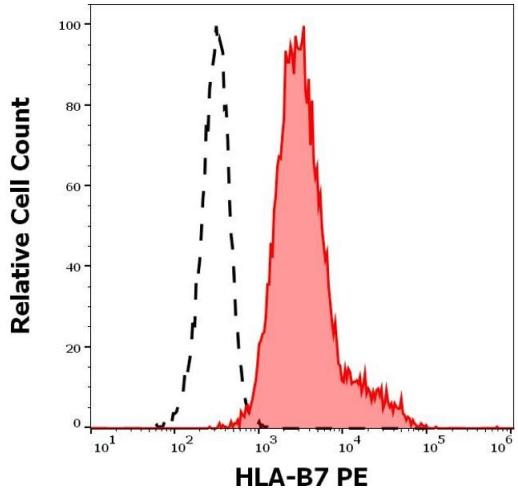
Flow Cytometry

Image 1. Flow cytometry surface staining patterns of human peripheral whole blood of HLA-B7 positive (left) and negative (right) blood donors stained using anti-HLA-B7 (BB7.1) PE antibody (10 µL reagent / 100 µL of peripheral whole blood).



Flow Cytometry

Image 2. Surface staining of HLA-B7 on human peripheral blood cells with anti-HLA-B7 (BB7.1) PE.



Flow Cytometry

Image 3. Separation of human lymphocytes of HLA-B7 positive blood donor (red-filled) from human lymphocytes of HLA-B7 negative blood donor (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood samples stained using anti-HLA-B7 (BB7.1) PE antibody (10 µL reagent / 100 µL of peripheral whole blood).

