Datasheet for ABIN1027673

anti-HLA B7 antibody

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Overview

Quantity:	0.1 mg
Target:	HLA B7
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HLA B7 antibody is un-conjugated
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 by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

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: Recommended dilution: 1-4 µg/mL.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	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.**
Storage:	4 °C
Storage Comment:	Store at 2-8°C. 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 12, pp. 1707-18, (2006) (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).

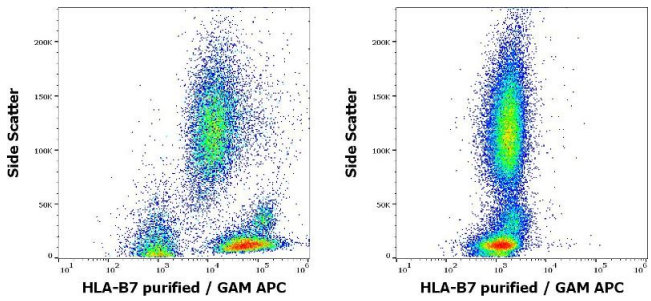
Publications

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).

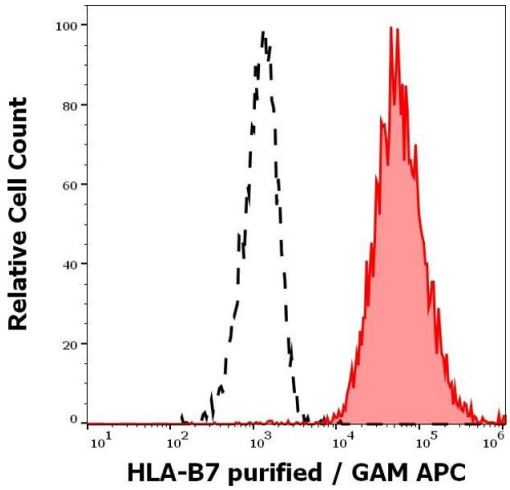
Storkus, Alexander, Payne, Dawson, Cresswell: "Reversal of natural killing susceptibility in target cells expressing transfected class I HLA genes." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 86, Issue 7, pp. 2361-4, (1989) (PubMed).

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) purified antibody (concentration in sample 2 µg/mL, GAM APC).



Flow Cytometry

Image 2. 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) purified antibody (concentration in sample 2 µg/mL, GAM APC).