

ARG54222 anti-HLA B7 antibody [BB7.1] (PE)

Package: 50 tests
Store at: 4°C

Summary

Product Description	PE-conjugated Mouse Monoclonal antibody [BB7.1] recognizes HLA B7
Tested Reactivity	Hu, NHuPrm
Tested Application	FACS
Specificity	The clone BB7.1 recognizes the HLA-B7 antigen. Although highly specific, it can cross-react with HLA-B42 antigen.
Host	Mouse
Clonality	Monoclonal
Clone	BB7.1
Isotype	IgG1
Target Name	HLA B7
Immunogen	Papain solubilised HLA-A2, B7
Conjugation	PE
Alternate Names	SPDA1; HLAB; AS; MHC class I antigen B*7; HLA class I histocompatibility antigen, B-7 alpha chain

Application Instructions

Application table	Application	Dilution
	FACS	10 µl / 10 ⁶ cells

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification Note	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.
Buffer	PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA
Preservative	15 mM Sodium azide
Stabilizer	0.2% (w/v) high-grade protease free BSA
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 3106 Human Swiss-port # P01889 Human
Gene Symbol	HLA-B
Gene Full Name	major histocompatibility complex, class I, B
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.
Function	Involved in the presentation of foreign antigens to the immune system. [UniProt]
Research Area	Immune System antibody
Calculated Mw	40 kDa
PTM	Polyubiquitinated in a post ER compartment by interaction with human herpesvirus 8 MIR1 protein. This targets the protein for rapid degradation via the ubiquitin system (By similarity).