

HLA-A2 Monoclonal Antibody (BB7.2), Alexa Fluor™ 488

Catalog NumberMA5-18162

Product data sheet

Details		Species Reactivity	
Size	100 Tests	Species reactivity	Human
Host/Isotope	Mouse / IgG2b	Tested Applications	
Class	Monoclonal	Flow Cytometry (Flow)	Dilution * 4 µLx100 µL whole blood or 10^6 cells
Type	Antibody	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Clone	BB7.2		
Immunogen	HLA-A2 solubilised by papain		
Conjugate	Alexa Fluor™ 488		
Form	Liquid		
Purification	Size-exclusion chromatography		
Storage buffer	PBS, pH 7.4, with 0.2% BSA		
Contains	15mM sodium azide		
Storage Conditions	4° C, store in dark, DO NOT FREEZE!		

Product specific information

This antibody recognizes an epitope at the C-terminus of alpha-2 helix and a turn on one of the underlying beta strands within the human HLA-A2 histocompatibility antigen.

Background/Target Information

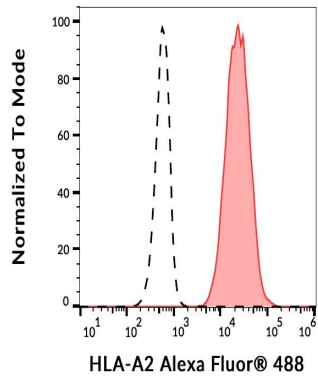
HLA-A belongs to the HLA class I heavy chain paralogues. This class I molecule is a heterodimer consisting of a heavy chain and a light chain (beta-2 microglobulin). The heavy chain is anchored in the membrane. Class I molecules play a central role in the immune system by presenting peptides derived from the endoplasmic reticulum lumen. They are expressed in nearly all cells. The heavy chain is approximately 45 kDa and its gene contains 8 exons. Exon 1 encodes the leader peptide, exons 2 and 3 encode the alpha1 and alpha2 domains, which both bind the peptide, exon 4 encodes the alpha3 domain, exon 5 encodes the transmembrane region, and exons 6 and 7 encode the cytoplasmic tail. Polymorphisms within exon 2 and exon 3 are responsible for the peptide binding specificity of each class one molecule. Typing for these polymorphisms is routinely done for bone marrow and kidney transplantation. Hundreds of HLA-A alleles have been described. HLA and MHC antibodies play a significant role in Immunoepitidomics, facilitating the identification and characterization of neoantigens through high-performance liquid chromatography coupled to tandem Mass Spectrometry.

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HLA-A2 Antibody (MA5-18162) in Flow

Separation of human peripheral blood cells derived from HLA-A2 positive donor (red-filled) from human peripheral blood cells derived from HLA-A2 negative donor (black-dashed) in flow cytometry analysis (surface staining) stained using anti-HLA-A2 (BB7.2) Alexa Fluor® 488 Monoclonal antibody (Product # MA5-18162), 4 µL reagent per milion cells in 100 µL of cell suspension.

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