

Mouse anti-Human HLA A2 Monoclonal Antibody | anti-HLA-A antibody

Mouse Anti Human HLA A2: Amethyst Orange

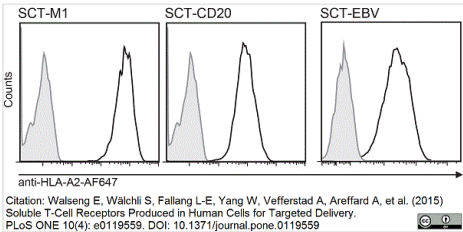
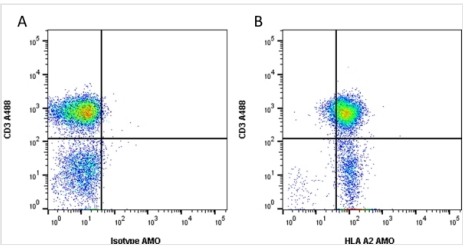
CATALOG # AAA50403	HOST Mouse	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

HLA A2; Monoclonal Antibody; Mouse Anti Human HLA A2: Amethyst Orange; HLA A2 antibody; BB7.2; anti-HLA-A antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	BB7.2
Purity/Purification	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant.
Form/Format	Purified IgG conjugated to Amethyst Orange - Liquid
Concentration	IgG concentration 0.1 mg/ml (varies by lot)
Applicable Applications for anti-HLA-A antibody	FCM/FACS (Flow Cytometry)
Immunogen	Papain solubilized HLA-A2
Buffer Solution	Phosphate Buffered Saline
Preservative Stabilizers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. This product should be stored undiluted. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light. This product contains a precipitate we recommend microcentrifugation before use.



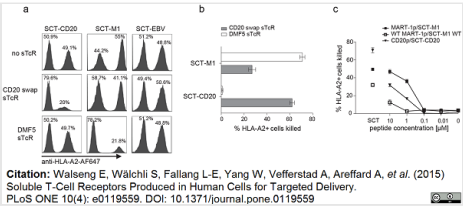
Citation: Walseng E, Wälchli S, Fallang L-E, Yang W, Veffestad A, Areffard A, et al. (2015) Soluble T-Cell Receptors Produced in Human Cells for Targeted Delivery. PLoS ONE 10(4): e0119559. DOI: 10.1371/journal.pone.0119559

Application Data

Figure A. Alexa Fluor 488 conjugated Mouse anti Human CD3 and Amethyst Orange conjugated Mouse IgG2b isotype control . Figure B. Alexa Fluor 488 conjugated Mouse anti Human CD3 and Amethyst Orange conjugated Mouse anti Human HLA-A2 . All experiments performed on human blood gated on live single lymphocytes, in the presence of 10% human serum. Data acquired on the ZE5 Cell Analyzer

Application Data

AlexaFluor A647 conjugated Mouse anti HLA-2 antibody, clone BB7.2 used to assess HLA-2 expression on SupT1 cells by flow cytometry,Image caption:SupT1 cells, which are HLA-A2 negative, were transduced withSCT-M1, SCT-CD20 or SCT-EBV constructs, respectively. Cells staining positively with anti-HLA-A2 were sorted, expanded and stained with anti-HLA-A2 antibodies conjugated to Alexa Fluor 647 (anti-HLA-A2-AF647), as shown. Untransduced SupT1 cells (filled grey) were used as a negative control.From: Walseng E, Wälchli S, Fallang L-E, Yang W, Veffestad A, Areffard A, et al. (2015)Soluble T-Cell Receptors Produced in Human Cells for Targeted Delivery.PLoS ONE 10(4): e0119559.



Application Data

AlexaFluor 647 conjugated Mouse anti HLA-2 antibody, clone BB7.2 used to assess HLA-2 expression on SupT1 cells by flow cytometry,Image caption:Antigen-specific elimination of target cells by sTCR-Saporin as measured by flow cytometry.(a) SupT1 cells expressing the indicated SCT were mixed at a 1:1 ratio with HLA-A2neg SupT1 cells and co-cultured for 3 days in the presence of relevant or irrelevant sTCR conjugated to Saporin, as indicated. At end of culture, cells were stained with anti-HLA-A2 AF647 to determine the frequencies of HLA-A2 positive and negative target cells among FSChi,SSChi events using flow cytometry. (b) Assay was performed as described in (a) and the percentage of SupT1 cells expressing indicated SCT that was eliminated by addition of sTCR is shown, calculated as described in materials and methods. Error bars indicate SEM of n = 3. (c) HLA-A2pos SupT1 cells mixed at a ratio of 1:1 with HLA-A2neg SupT1 cells were incubated overnight with indicated concentrations of peptide, washed, and indicated sTCR-Sap was added. SupT1 cells expressing SCT were used as positive controls (disconnected symbols). Culture and analysis to determine the percentage of eliminated HLA-A2pos targets was performed as described in (a,b). Results shown are representative of two experiments performed, and error bars represent SD of duplicates.From: Walseng E, Wälchli S, Fallang L-E, Yang W, Veffestad A, Areffard A, et al. (2015)Soluble T-Cell Receptors Produced in Human Cells for Targeted Delivery.PLoS ONE 10(4): e0119559.

ADDITIONAL INFORMATION

Related Product Information for anti-HLA-A antibody	Mouse anti Human HLA A2 antibody, clone BB7.2 recognizes the human HLA-A2 histocompatibility antigen. The epitope recognized by this antibody has been studied extensively and would appear to include the carboxy-terminus of the alpha-2 helix and a turn on one of the underlying beta strands. Mouse anti Human HLA A2 antibody, clone BB7.2 may be used for the flow cytometric detection of HLA-A2 expression and has also been used for immunoaffinity purification of HLA-A2 molecules. Functionally Mouse anti Human HLA A2 antibody, clone BB7.2 is reported to inhibit MHC restricted cellular cytotoxicity.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	122138
UniProt Accession #	P01892
UniProt Protein Name	HLA class I histocompatibility antigen, A-2 alpha chain
UniProt Gene Name	HLA-A
UniProt Synonym Gene Names	HLAA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/hla-a2-antibody-clone-bb7-2-flow-cytometry-elisa/50403>