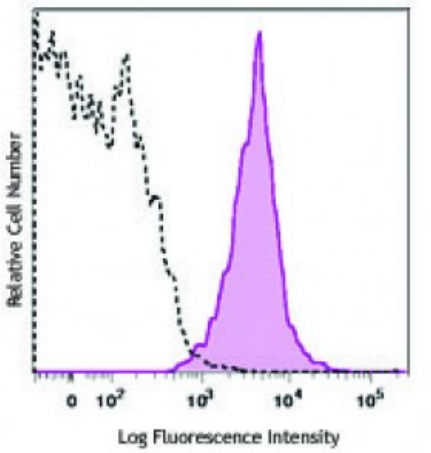
SONY

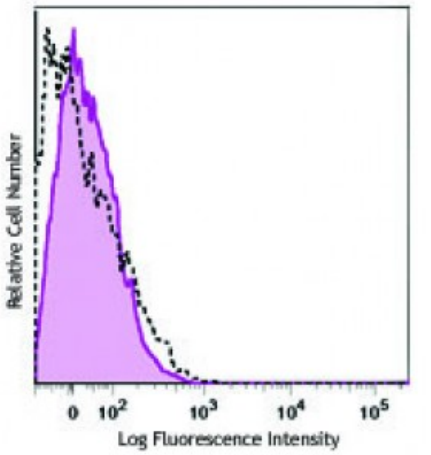
Product Data Sheet

Alexa Fluor® 700 anti-human HLA-A2

Catalog # / Size:	2316590 / 100 tests 2316585 / 25 tests
Clone:	BB7.2
Isotype:	Mouse IgG2b, κ
Immunogen:	Papain solubilized HLA-A2
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 700 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Concentration:	Lot-specific



Peripheral blood lymphocytes from HLA-A2 positive (top) and HLA-A2 negative (bottom) donors were stained with anti-human HLA-A2 (clone BB7.2) Alexa Fluor® 700 (filled histograms) or mouse IgG2b Alexa Fluor® 700 isotype control (open histograms).



Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. The suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is highly recommended that the reagent be titrated for optimal performance for each application. * Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.
Application Notes:	The BB7.2 antibody recognizes human leukocyte antigen (HLA) A2 which is a subset of MHC-class I molecules encoded by A*02 alleles. Additional reported applications (for the relevant formats) include: immunoprecipitation3.

Application References:

1. Brodsky FM, *et al.* 1979. *Immunol. Rev.* 47:3.
2. Parham P and Brodsky FM. *et al.* 1981. *Hum. Immunol.* 3:277.

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3. Lubben NB, *et al.* 2007. *Mol Biol Cell.* 18:3351. (IP)

Description: HLA-A2 is most common in Northern Asia and North America populations. MHC class I antigens associated with β2-microglobulin are expressed by all human nucleated cells. MHC class I molecules are involved in presentation of antigens to $CD8^+$ T cells, playing an important role in cell-mediated immune responses and tumor surveillance.