Product Data Sheet

PE/Dazzle™ 594 anti-human HLA-A2

Catalog # / Size:	2316670 / 100 tests 2316665 / 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 PE/Dazzle™ 594 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

HLA-A2 positive human peripheral blood lymphocytes were stained with anti-human HLA-A2 (clone BB7.2) PE/Dazzle™ 594 (filled histogram) or mouse IgG2b, κ PE/Dazzle™ 594 isotype control (open histogram).

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. * PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.
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: immunoprecipitation[3].

HLA-A2 negative human peripheral blood lymphocytes were stained with anti-human HLA-A2 (clone BB7.2) PE/Dazzle™ 594 (filled histogram) or mouse IgG2b, κ PE/Dazzle™ 594 isotype control (open histogram).

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.
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.

Antigen References:
1. Jähn PS, *et al*. 2010. *Cell. Immunol.* 265:15.
2. Graham LM and Brown GD. 2009. *Cytokine.* 48:148.