SONY

Product Data Sheet

Brilliant Violet 421™ anti-human HLA-E

Catalog # / Size: 2313060 / 100 tests
2313055 / 25 tests

Clone: 3D12

Isotype: Mouse IgG1, κ

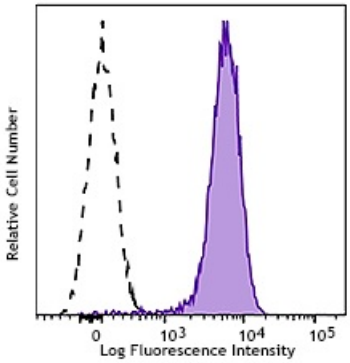
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Workshop Number: HCDM listed

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with HLA-E (clone 3D12) Brilliant Violet 421™ (filled histogram) or mouse IgG1, κ Brilliant Violet 421™ 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 or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.

Human paraffin-embedded colon tissue slices were prepared with a standard protocol of deparaffinization and rehydration. Antigen retrieval was done with Citrate buffer 1X pH 6.0 at 95°C for 40 minutes. Tissue was washed with PBS/0.05% Tween 20 twice for five minutes and blocked with 5% FBS and 0.2% gelatin for 30 minutes. Then, the tissue was stained with 10 µg/mL of anti-human CD66a/c/e (clone ASL-32) Spark YG™ 570 (red) and anti-Pan-Cytokeratin (clone C-11) Alexa Fluor® 488 antibody (green) at 4°C overnight. Nuclei were counterstained with DAPI (blue). The image was scanned with a 10X objective and stitched with software.

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Application References:

1. Lee N, *et al.* 1998. *Proc. Natl. Acad. Sci. USA.* 95:5199.
2. Wooden SL, *et al.* 2005. *J. Immunol.* 175:1383.
3. Monaco EL, *et al.* 2008. *J. Immunol.* 181:5442.
4. Corrah TW, *et al.* 2011. *J. Virol.* 85:3367. PubMed

Description: HLA-E is a non-classical MHC class I (MHC-Ib) molecule. It is characterized by limited polymorphism and ubiquitous expression. HLA-E, as other MHC-I molecules, is heterodimerized with β2-microglobulin. HLA-E interacts with CD94/NKG2 receptor to regulate NK cell cytolysis activities.

Antigen References:

1. Sullivan LC, *et al.* 2008. *Tissue Antigen.* 72:415.
2. Koller BH, *et al.* 1988. *J. Immunol.* 141:897.

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