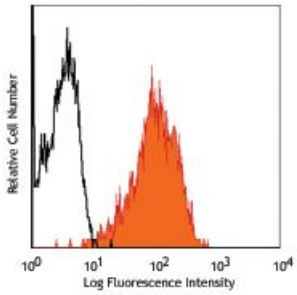
SONY

Product Data Sheet

Purified anti-human HLA-E

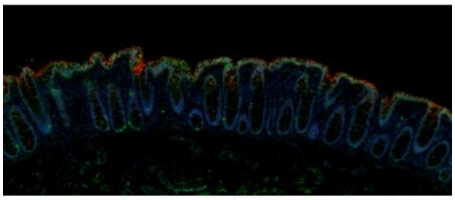
Catalog # / Size:	2313010 / 100 µg
Clone:	3D12
Isotype:	Mouse IgG1, κ
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Workshop Number:	HCDM listed
Concentration:	0.5



Human peripheral blood lymphocytes stained with 3D12 PE

Applications:

Applications:	Flow Cytometry, Immunoprecipitation
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 ≤2.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.



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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