

## Spark PLUS UV395™ anti-human HLA-E Antibody

<b>Catalog# / Size</b>	342633 / 25 tests 342634 / 100 tests
<b>Clone</b>	3D12
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	HLA class I histocompatibility antigen, alpha chain E, HLA-E
<b>Isotype</b>	Mouse IgG1, $\kappa$
<b>Description</b>	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 $\beta$ 2-microglobulin. HLA-E interacts with CD94/NKG2 receptor to regulate NK cell cytotoxic activities.

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with Spark PLUS UV395™ under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our <a href="#">Certificate of Analysis</a> online tool.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is 5 $\mu$ L per million cells in 100 $\mu$ L staining volume or 5 $\mu$ L per 100 $\mu$ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.  * Spark PLUS UV395™ has a maximum excitation of 355 nm and a maximum emission of 385 nm.
<b>Excitation Laser</b>	Ultraviolet Laser (355 nm)
<b>Application References</b>	<ol style="list-style-type: none"><li>1. Lee N, <i>et al.</i> 1998. <i>Proc. Natl. Acad. Sci. USA.</i> 95:5199.</li><li>2. Wooden SL, <i>et al.</i> 2005. <i>J. Immunol.</i> 175:1383.</li><li>3. Monaco EL, <i>et al.</i> 2008. <i>J. Immunol.</i> 181:5442.</li><li>4. Corrah TW, <i>et al.</i> 2011. <i>J. Virol.</i> 85:3367. <a href="#">PubMed</a></li></ol>
<b>(PubMed link indicates BioLegend citation)</b>	
<b>RRID</b>	AB_3698989 (BioLegend Cat. No. 342633) AB_3698989 (BioLegend Cat. No. 342634)

### Antigen Details

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<b>Structure</b>	HLA family, Ig superfamily, 42 kD
<b>Distribution</b>	Broadly expressed

<b>Function</b>	Mediate cell recognition by NK cells
<b>Ligand/Receptor</b>	CD94/NKG2
<b>Biology Area</b>	Immunology
<b>Molecular Family</b>	MHC Antigens
<b>Antigen References</b>	1. Sullivan LC, <i>et al.</i> 2008. <i>Tissue Antigen</i> . 72:415. 2. Koller BH, <i>et al.</i> 1988. <i>J. Immunol.</i> 141:897.
<b>Gene ID</b>	<a href="#">3133</a>

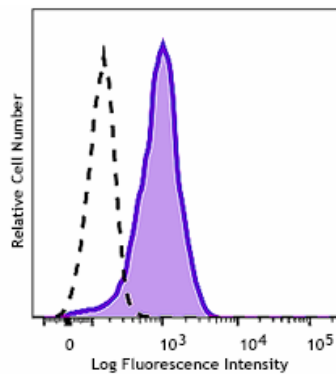
## Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Purified anti-human HLA-E, PE anti-human HLA-E, APC anti-human HLA-E, PE/Cyanine7 anti-human HLA-E, PerCP/Cyanine5.5 anti-human HLA-E, Brilliant Violet 421™ anti-human HLA-E, PE/Dazzle™ 594 anti-human HLA-E, TotalSeq™-A0918 anti-human HLA-E, TotalSeq™-C0918 anti-human HLA-E, Biotin anti-human HLA-E, TotalSeq™-B0918 anti-human HLA-E, TotalSeq™-D0918 anti-human HLA-E, Brilliant Violet 605™ anti-human HLA-E, Brilliant Violet 650™ anti-human HLA-E, Brilliant Violet 711™ anti-human HLA-E, Brilliant Violet 785™ anti-human HLA-E, Spark Blue™ 574 anti-human HLA-E (Flexi-Fluor™), Spark Blue™ 550 anti-human HLA-E (Flexi-Fluor™), Spark PLUS UV395™ anti-human HLA-E Antibody

## Product Data



Human peripheral blood lymphocytes were stained with anti-human HLA-E (clone 3D12) Spark PLUS UV395™ (filled histogram) or mouse IgG1, κ Spark PLUS UV395™ isotype control (open histogram).

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