

## Brilliant Violet 605™ anti-human CD147 Antibody

<b>Catalog# / Size</b>	306225 / 25 tests 306226 / 100 tests
<b>Clone</b>	HIM6
<b>Regulatory Status</b>	RUO
<b>Workshop</b>	VI N-L109
<b>Other Names</b>	Neurothelin, Basigin, EMMPRIN
<b>Isotype</b>	Mouse IgG1, $\kappa$
<b>Description</b>	CD147, also known as neurothelin or basigin, is a member of the Ig superfamily. It is a 55-65 kD type I transmembrane glycoprotein which is primarily expressed on leukocytes, erythrocytes, platelets, and endothelial cells. CD147 is reported to have a function during embryonal brain development and/or play a role in integrin-mediated adhesion in brain endothelia.

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Reported Reactivity</b>	Chimpanzee, Baboon, Capuchin Monkey
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Human PBMCs
<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 Brilliant Violet 605™ 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.

Brilliant Violet 605™ excites at 405 nm and emits at 603 nm. The bandpass filter 610/20 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 605™ is a trademark of Sirigen Group Ltd.

[Learn more about Brilliant Violet™.](#)

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<b>Excitation Laser</b>	Violet Laser (405 nm)
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: inhibition of T cell activation <sup>2</sup> , immunohistochemical staining <sup>1,3</sup> of frozen tissue sections and formalin-fixed paraffin-embedded tissue sections, and Western blotting <sup>1</sup> . The Ultra-LEAF™ Purified antibody (Endotoxin <0.01 EU/μg, Azide-Free, 0.2 μm filtered) is recommended for functional assays (Cat. No. 306221 and 306222).
<b>Application References</b>	1. Menashi S, <i>et al.</i> 2003. <i>Cancer Res.</i> 63:7575. (WB IHC) 2. Woodhead VE, <i>et al.</i> 2000. <i>Int. Immunol.</i> 12:1051. (Block) 3. Reimers N, <i>et al.</i> 2004. <i>Clin. Cancer Res.</i> 10:3422. (IHC)
<b>(PubMed link indicates BioLegend citation)</b>	
<b>RRID</b>	AB_3675034 (BioLegend Cat. No. 306225) AB_3675034 (BioLegend Cat. No. 306226)

## Antigen Details

<b>Structure</b>	Ig superfamily, type I transmembrane glycoprotein, 55-65 kD
<b>Distribution</b>	Leukocytes, erythrocytes, platelets, endothelial cells
<b>Function</b>	Adhesion
<b>Cell Type</b>	Endothelial cells, Erythrocytes, Leukocytes, Platelets
<b>Biology Area</b>	Cell Adhesion, Cell Biology, Immunology
<b>Molecular Family</b>	Adhesion Molecules, CD Molecules
<b>Antigen References</b>	1. Biswas C, <i>et al.</i> 1995. <i>Cancer Res.</i> 55:434. 2. Fadool J, <i>et al.</i> 1993. <i>Dev. Dyn.</i> 196:252. 3. Felzmann T, <i>et al.</i> 1991. <i>J. Clin. Immunol.</i> 11:205.
<b>Gene ID</b>	<a href="#">682</a>

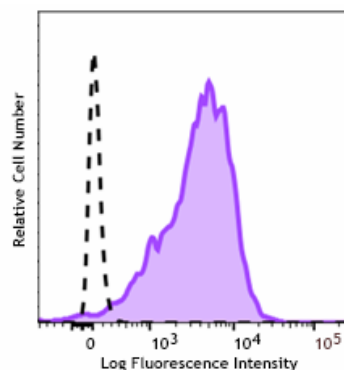
## Related Protocols

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

## Other Formats

FITC anti-human CD147, Purified anti-human CD147, Alexa Fluor® 488 anti-human CD147, Alexa Fluor® 647 anti-human CD147, PE anti-human CD147, APC/Fire™ 750 anti-human CD147, APC anti-human CD147, PE/Cyanine7 anti-human CD147, PerCP/Cyanine5.5 anti-human CD147, Ultra-LEAF™ Purified anti-human CD147, TotalSeq™-C1137 anti-human CD147, Brilliant Violet 605™ anti-human CD147, Brilliant Violet 510™ anti-human CD147 Antibody

## Product Data



Human peripheral blood lymphocytes were stained with anti-human CD147 (clone HIM6) Brilliant Violet 605™ (filled histogram) or mouse IgG1, κ Brilliant Violet 605™ isotype control (open histogram).

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