

Brilliant Violet 421™ anti-human CD147 Antibody

Catalog# / Size	306229 / 25 tests 306230 / 100 tests
Clone	HIM6
Regulatory Status	RUO
Workshop	VI N-L109
Other Names	Neurothelin, Basigin, EMMPRIN
Isotype	Mouse IgG1, κ
Description	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

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human PBMCs
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
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.

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.

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

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Excitation Laser Violet Laser (405 nm)

Application Notes Additional reported applications (for the relevant formats) include: inhibition of T cell activation², immunohistochemical staining^{1,3} of frozen tissue sections and formalin-fixed paraffin-embedded

tissue sections, and Western blotting¹. 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).

Application References

(PubMed link indicates
BioLegend citation)

1. Menashi S, *et al.* 2003. *Cancer Res.* 63:7575. (WB IHC)
2. Woodhead VE, *et al.* 2000. *Int. Immunol.* 12:1051. (Block)
3. Reimers N, *et al.* 2004. *Clin. Cancer Res.* 10:3422. (IHC)

Antigen Details

Structure Ig superfamily, type I transmembrane glycoprotein, 55-65 kD

Distribution Leukocytes, erythrocytes, platelets, endothelial cells

Function Adhesion

Cell Type Endothelial cells, Erythrocytes, Leukocytes, Platelets

Biology Area Cell Adhesion, Cell Biology, Immunology

Molecular Family Adhesion Molecules, CD Molecules

Antigen References

1. Biswas C, *et al.* 1995. *Cancer Res.* 55:434.
2. Fadool J, *et al.* 1993. *Dev. Dyn.* 196:252.
3. Felzmann T, *et al.* 1991. *J. Clin. Immunol.* 11:205.

Gene ID [682](#)

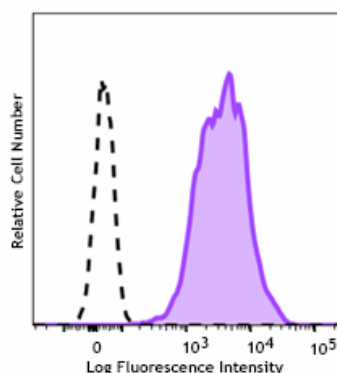
Related Protocols

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

Other Formats

Purified anti-human CD147, FITC anti-human CD147, Alexa Fluor® 488 anti-human CD147, Alexa Fluor® 647 anti-human CD147, PE anti-human CD147, APC anti-human CD147, PerCP/Cyanine5.5 anti-human CD147, TotalSeq™-C1137 anti-human CD147, Brilliant Violet 421™ anti-human CD147, PE/Cyanine7 anti-human CD147, Brilliant Violet 605™ anti-human CD147, Brilliant Violet 510™ anti-human CD147 Antibody, APC/Fire™ 750 anti-human CD147, Ultra-LEAF™ Purified anti-human CD147

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD147 (clone HIM6) Brilliant Violet 421™ (filled histogram) or mouse IgG1, κ Brilliant Violet 421™ isotype control (open histogram).

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