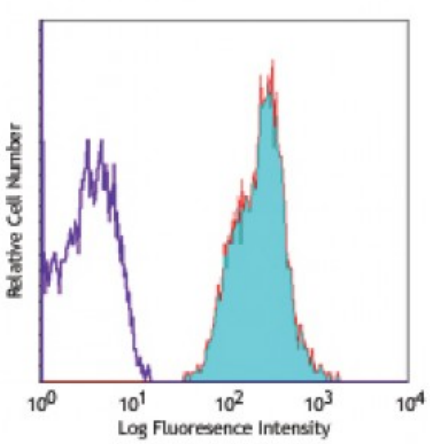
SONY

Product Data Sheet

Alexa Fluor® 647 anti-human CD147

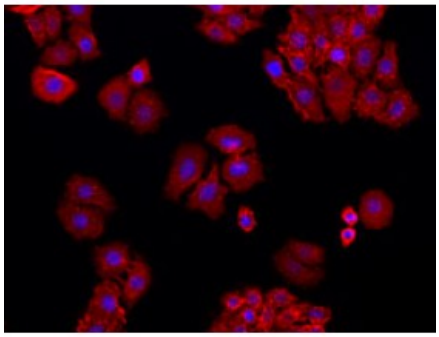
Catalog # / Size:	2131050 / 100 tests 2131045 / 25 tests
Clone:	HIM6
Isotype:	Mouse IgG1, κ
Immunogen:	Human PBMCs
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Workshop Number:	VI N-L109
Concentration:	Lot-specific



Human peripheral blood lymphocytes stained with HIM6 Alexa Fluor® 647

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 microL per million cells or 5 microL per 100 microL of whole blood. For immunofluorescence microscopy, a concentration range of 5-10 µg per ml is recommended. For immunohistochemical staining on formalin-fixed paraffin-embedded tissue sections, the suggested use of this reagent is 5.0 - 10 microg per ml. It is recommended that the reagent be titrated for optimal performance for each application. * Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.
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 LEAF™ Purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 306206).



HeLa cells were fixed with 1% paraformaldehyde (PFA) and then stained with 10 microg/ml of anti-human CD147 (clone HIM6) Alexa Fluor® 647 (red) for 3 hours at room temperature. Nuclei were counterstained with DAPI (blue). The image was captured by 2

Application References:

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)
4. Porat-Shliom N, *et al.* 2013. *PLoS One.* 25:81897. PubMed

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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.

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.