SONY

# Product Data Sheet

## Alexa Fluor® 647 anti-human CD147

**Catalog # / Size:** 2131045 / 25 tests
2131050 / 100 tests

**Clone:** HIM6

**Isotype:** Mouse IgG1, κ

**Immunogen:** Human PBMCs

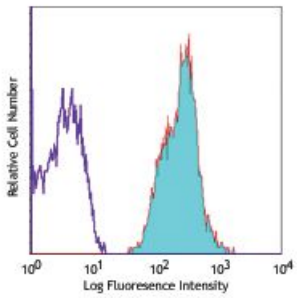
**Reactivity:** Human, Non-human primate, Other

**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 BSA (origin USA).

**Workshop Number:** VI N-L109

**Concentration:** Lot-specific




Human peripheral blood lymphocytes stained with HIM6 Alexa Fluor® 647

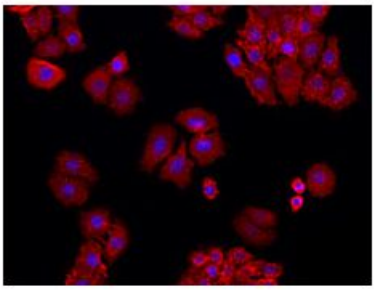
## Applications:

**Applications:** Flow Cytometry, Immunohistochemistry, Other

**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 or 5 µl per 100 µl 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 µg 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 µg/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 20X objective.

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**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)

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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.

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