

PerCP/Cyanine5.5 anti-human CD366 (Tim-3)

Catalog # / Size: 2325080 / 100 tests
2325075 / 25 tests

Clone: F38-2E2

Isotype: Mouse IgG1, κ

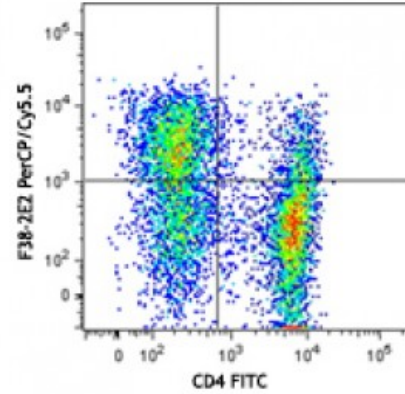
Immunogen: Human Tim-3 fusion protein

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with PerCP/Cyanine5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cyanine5.5 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Concentration: Lot-specific

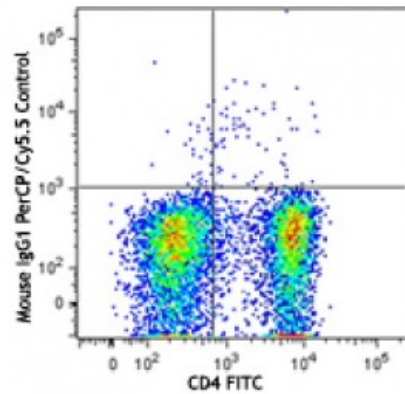


PHA-stimulated (3 days) human peripheral blood lymphocytes were stained with CD4 FITC and anti-human CD366 (Tim-3, clone F38-2E2) PerCP/Cy5.5 (top) or mouse IgG1, κ PerCP/Cy5.5 isotype control (bottom).

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. It is recommended that the reagent be titrated for optimal performance for each application.



* PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.

Application Notes: Additional reported applications (for relevant formats of this clone) include: costimulation¹ (clone 2E2 has been shown to enhance T-cell receptor mediated activation and cytokine secretion) and blocking^{2,3}. The LEAF™ purified antibody (Endotoxin <0.1 EU/μg, Azide-Free, 0.2 μm filtered) is recommended for functional assays (Cat. No. 345004). For highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 345010) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin <0.01 EU/microg).

- Application** 1. Hafler DA and Kuchroo V. 2008. *J. Exp. Med.* 205:2699.
- References:** 2. Zhu C, *et al.* 2005. *Nat. Immunol.* 6:1245.
3. Wang F, *et al.* 2009. *Immunobiology* 214:342.
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Description: CD366 (Tim-3) is a transmembrane protein also known as T cell immunoglobulin and mucin domain containing protein-3. Tim-3 is expressed at high levels on activated T cells (preferentially on Th1 cells, monocytes/macrophages, and dendritic cells). Tim-3 has also been shown to exist as a soluble protein. Cells expressing Tim-3 are present at high levels in the CNS of animals at the onset of experimental autoimmune encephalomyelitis (EAE), a disease mediated by lymphocytes secreting Th1-like cytokines. Tim-3 has been proposed to inhibit Th1-mediated immune responses and promote immunological tolerance.

- Antigen** 1. Hafler DA and Kuchroo V. 2008. *J. Exp. Med.* 205:2699.
- References:** 2. Zhu C, *et al.* 2005. *Nat. Immunol.* 6:1245.
3. Wang F, *et al.* 2009. *Immunobiology* 214:342.