

**PE anti-human CD366 (Tim-3)**

**Catalog # / Size:** 2325030 / 100 tests  
2325025 / 25 tests

**Clone:** F38-2E2

**Isotype:** Mouse IgG1, κ

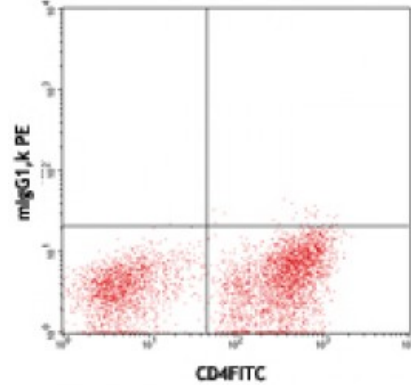
**Immunogen:** Human Tim-3 fusion protein

**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

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

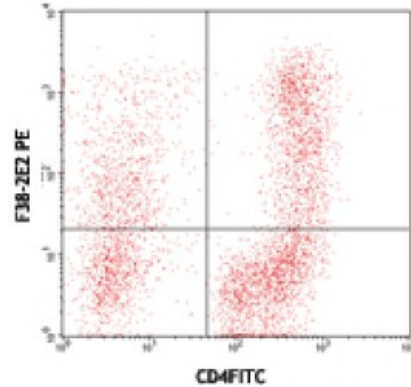
**Concentration:** Lot-specific



**Applications:**

**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 microL to 5 microL per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.



Th1-polarized human peripheral blood mononuclear cells were stained with CD4 FITC and anti-human CD366 (Tim-3, clone F38-2E2) PE (top) or mouse IgG1, κ PE (bottom).

**Application Notes:** Additional reported applications (for relevant formats of this clone) include: costimulation<sup>1</sup> (clone 2E2 has been shown to enhance T-cell receptor mediated activation and cytokine secretion) and blocking<sup>2,3</sup>. 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 References:**
- Hastings WD, *et al.* 2009. *Eur. J. Immunol.* 39:2492. (Costim)
  - Jones RB, *et al.* 2008. *J. Exp. Med.* 205:2763. (Block)
  - Klibi J, *et al.* 2009. *Blood* 113:1957. (FC, Block)

**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**  
**References:**

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