

**APC/Fire™ 750 anti-human B7-H4**

**Catalog # / Size:** 2390585 / 25 tests  
2390590 / 100 tests

**Clone:** MIH43

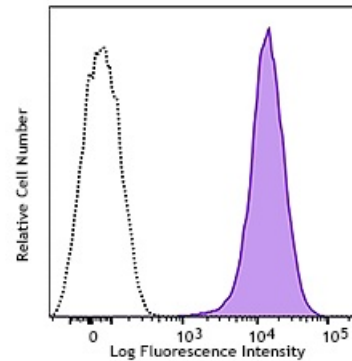
**Isotype:** Mouse IgG1, κ

**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.

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

**Concentration:** Lot-specific



Human B7-H4 transfected P815 cells were stained with human B7-H4 (clone MIH43) APC/Fire™ 750 (filled histogram) or mouse IgG1, κ APC/Fire™ 750 isotype control (open histogram).

**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 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.

\* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.

**Application Notes:** Additional reported applications (for the relevant formats) includes immunofluorescence<sup>2</sup>.

- Application References:**
1. Quandt D, *et al.* 2011. *Clin. Cancer Res.* 17:3100.
  2. Smith JB, *et al.* 2014. *Gynecol. Oncol.* 134:181. (FC, IF)

**Description:** B7-H4, also known as VTCN1, is a type I transmembrane protein and member of the B7 family. Its extracellular region consists of one IgV-like and one IgC-like domain. B7-H4 expression has been reported on activated T cells, B cells, monocytes, and dendritic cells. On T cells, B7-H4 inhibits proliferation, cytokine secretion, and cytotoxicity. B7-H4 is also expressed by different carcinomas including renal, gastric, breast, ovarian and melanoma. Its expression is associated with a poor prognosis.

- Antigen References:**
1. Fauci JM, *et al.* 2012. *Gynecol. Oncol.* 127:420.
  2. Chen C, *et al.* 2012. *J. Immunother.* 35:354.
  3. Guo G, *et al.* 2012. *Clin. Rheumatol.* 31:271.
  4. Arigami T, *et al.* 2010. *J. Surg. Oncol.* 102:748.