



1P-344-C025

Monoclonal Antibody to TRIM Phycoerythrin (PE) conjugated (0.025 mg)

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| Clone: | TRIM-04 |
| Isotype: | Mouse IgG2a |
| Specificity: | The antibody TRIM-04 reacts with T cell receptor-interacting molecule (TRIM), a 30 kDa adaptor protein expressed by T cells. |
| Regulatory Status: | RUO |
| Immunogen: | Recombinant intracellular domain (aa 29-186) of human TRIM. |
| Species Reactivity: | Human |
| Negative Species: | Mouse |
| Preparation: | The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography. |
| Concentration: | 0.1 mg/ml |
| Storage Buffer: | The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide. |
| Storage / Stability: | Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label. |
| Usage: | The reagent is designed for Flow Cytometry analysis (see application note on www.exbio.cz). Suggested working dilution is 1:50. Indicated dilution is recommended starting point for use of this product. Working concentrations should be determined by the investigator. |
| Expiration: | See vial label |
| Lot Number: | See vial label |
| Background: | TRIM (T cell receptor-interacting molecule), also known as TRAT1 (T cell receptor associated transmembrane adaptor 1) is a 30 kDa protein expressed by T cells as a cystein-linked homodimer. It associates with TCR-CD3-zeta-chain complex and becomes phosphorylated by Src-family kinases. TRIM is potentially involved in negative regulation of TCR-mediated signaling, but its role remains unclear. |

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Antibodies

- References:**
- *Huynh T, Wurch A, Bruyns E, Korinek V, Schraven B, Eichmann K.: Developmentally regulated expression of the transmembrane adaptor protein trim in fetal and adult T cells. *Scand J Immunol.* 2001 Jul-Aug;54(1-2):146-54.
 - *Horejsí V, Zhang W, Schraven B.: Transmembrane adaptor proteins: organizers of immunoreceptor signalling. *Nat Rev Immunol.* 2004 Aug;4(8):603-16.
 - *Simeoni L, Smida M, Posevitz V, Schraven B, Lindquist JA.: Right time, right place: the organization of membrane proximal signaling. *Semin Immunol.* 2005 Feb;17(1):35-49.
 - *Tedoldi S, Paterson JC, Hansmann ML, Natkunam Y, Rüdiger T, Angelisova P, Du MQ, Robertson H, Roncador G, Sanchez L, Pozzobon M, Masir N, Barry R, Pileri S, Mason DY, Marafioti T, Horejsí V.: Transmembrane adaptor molecules: a new category of lymphoid-cell markers. *Blood.* 2006 Jan 1;107(1):213-21.
 - *Kirchgessner H, Dietrich J, Scherer J, Isomaki P, Korinek V, Hilgert I, Bruyns E, Leo A, Cope AP, Schraven B.: The transmembrane adaptor protein TRIM regulates T cell receptor (TCR) expression and TCR-mediated signaling via an association with the TCR zeta chain. *J Exp Med.* 2001 Jun 4;193(11):1269-84.

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