SONY

Product Data Sheet

FITC anti-human CD288 (TLR8)

Catalog # / Size: 2577535 / 25 tests
2577540 / 100 tests

Clone: S16018A

Isotype: Mouse IgG2a, κ

Immunogen: Human TLR8-transfected cells

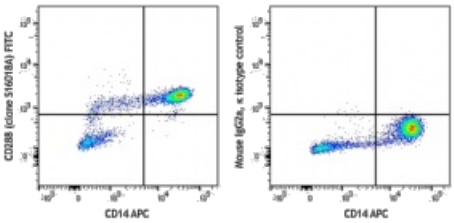
Reactivity: Human

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

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

Workshop Number: V CD40.5

Concentration: Lot-specific



Human peripheral blood monocytes were stained with CD14 APC, treated with fixation buffer (Cat. No. 2704005) and permeabilization wash buffer (Cat. No. 2705010), and then stained with CD288 (TLR8) (clone S16018A) FITC (left) or mouse IgG2a, κ FITC isotype control (right). Data shown is gated on the monocyte population.

Applications:

Applications: Intracellular 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.

Application Notes: Clone KPL-1 is reported to recognize the tyrosine sulfation consensus motif of PSGL-1[1]. Additional reported applications (for the relevant formats) include: Western Blot[1], immunoprecipitation[2], immunohistochemical staining of acetone-fixed frozen tissue sections and formalin-fixed paraffin embedded tissue sections[1], blocks the recognition of PSGL-1 with P- and L-selectin[1].

Application References:

1. Van Rhijn I, *et al.* 2003. *Intl. Immunol.* 15:373.
2. Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)

Description: Toll-like receptor (TLR) 8, also known as CD288, is a 83 kDa, type 1 transmembrane protein, member of the TLR receptor family. TLR8 is expressed intracellulary in monocytes, macrophages and myeloid dendritic cells, and plays an important role in the innate immune response by binding single-stranded RNA (ssRNA). TLR8 triggers anti-viral reponses promoting the secretion of proinflammatory cytokines such as IL-12 and TNF.

Antigen References:

1. Lood C, *et al*. 2017. *J Exp Med*. 214:2103.
2. Prinz N, *et al*. 2011. *Blood*. 118:2322.
3. Gringhuis SI, *et al*. 2010. *Nat Immunol*. 11419.
4. Cros J, *et al*. 2010. *Immunity*. 33:375.
5. Peng G, *et al*. 2005. *Science*. 309:1380.