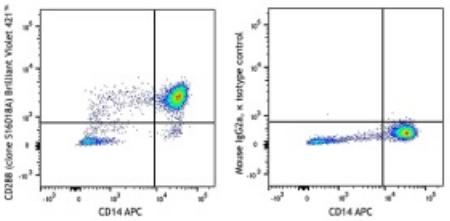
SONY

Product Data Sheet

Brilliant Violet 421™ anti-human CD288 (TLR8)

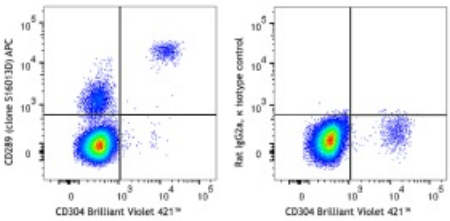
Catalog # / Size:	2577545 / 25 tests 2577550 / 100 tests
Clone:	S16018A
Isotype:	Mouse IgG2a, κ
Immunogen:	Human TLR8-transfected cells
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Workshop Number:	V CD40.5
Concentration:	Lot-specific



Human peripheral blood monocytes were stained with CD14 APC, treated with BioLegend's Fixation Buffer (Cat. No. 420801) and Permeabilization Wash Buffer (Cat. No. 421002), and then stained with CD288 (TLR8) (clone S16018A) Brilliant Violet 421™ (left) or mouse IgG2a, κ Brilliant Violet 421™ isotype control (right). Data shown is gated on the monocyte population.

Applications:

Applications: Intracellular Staining for Flow Cytometry



Human peripheral blood mononuclear cells were stained with CD304 Brilliant Violet 421™ and CD19 FITC, fixed, permeabilized, and then intracellularly stained with CD289 (clone S16013D) APC (left) or Rat IgG2a, κ APC isotype control (right). Dot plots exclude monocytes.

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Recommended Usage: Each lot of this antibody is quality control tested by intracellular 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. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.

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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.

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