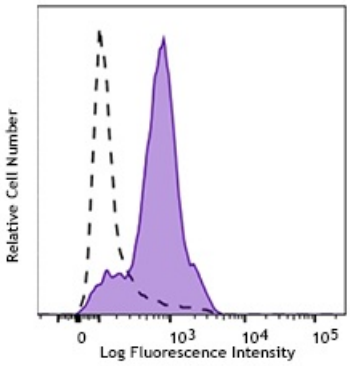
SONY

Product Data Sheet

PE anti-MEK1 Phospho (Ser298)

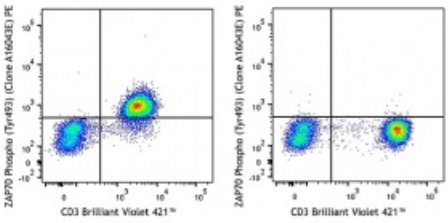
Catalog # / Size:	3653020 / 100 tests 3653015 / 25 tests
Clone:	A16117B
Isotype:	Mouse IgG1, κ
Immunogen:	Human MEK1 peptide phosphorylated at Ser298. Complete Freund's adjuvant.
Reactivity:	Human, Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE under optimal 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



Human peripheral blood lymphocytes were stimulated with (filled histogram) or without (open histogram) Cell Activation Cocktail (without Brefeldin A) for 15 minutes, then fixed with Fixation Buffer, permeabilized with True-Phos™ Perm Buffer, and intracellularly stained with anti-MEK1 Phospho (Ser298) Antibody (clone A16117B) PE.

Applications:

Applications:	Intracellular Flow Cytometry
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.
Application Notes:	**Flow Cytometry[2]:** The fluorochrome-labeled B27 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify IFN-γ -producing cells within mixed cell populations.



Human peripheral blood lymphocytes were stimulated by CD3 and CD28 cross-linking (left) or unstimulated (right), fixed with Fixation Buffer (Cat. No. 2704005), permiabilized with Intracellular Staining Permeabilization Wash Buffer (Cat. No. 2705010), then intracellularly stained with CD3 Brilliant Violet 421™ and anti-ZAP70 Phospho (Tyr 493) (clone A16043E) PE. For CD3 and CD28 cross-linking, cells were incubated with anti-CD3 and anti-CD28 on ice for 15 minutes followed by Purified anti-Mouse

Ig on ice for 15 minutes, and incubated at 37°C for 2 minutes.

Application References:

Description: MEK1 and MEK2 (Map/Erk Kinase) are serine/threonine kinases in the MAPK/ERK signaling axis that play a critical role in cellular proliferation, differentiation, and migration. Phosphorylation at MEK1 (Ser298) by PAK1 enhances ability of upstream Raf kinases to phosphorylate regulatory serines (Ser218 and Ser222) in the activation loop, thereby stimulating kinase activity.

Antigen References:

1. Song C, *et al.* 2017. *Sci Rep.* 7:46833.
2. Jeong DE, *et al.* 2017. *EMBO J.* 36:1046.
3. Kyriakakis E, *et al.* 2017. *Cell Signal.* 35:163.
4. Narbonne P, *et al. PLoS Genet.* 13:e1006738.
5. Wu H, *et al.* 2013. *PLoS One.* 8:e83737.
6. Wang Z, *et al*. 2010. *Oncogene*. 29:3362.
7. Moniz S, *et al*. 2007. *Oncogene*. 26:6071.
8. Park ER, *et al*. 2007. *Cell Signal*. 7:1488.