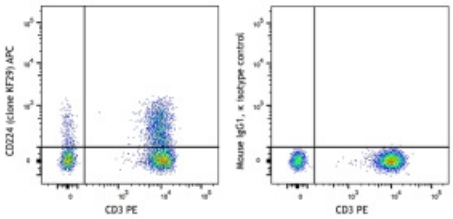
SONY

Product Data Sheet

APC anti-human CD224

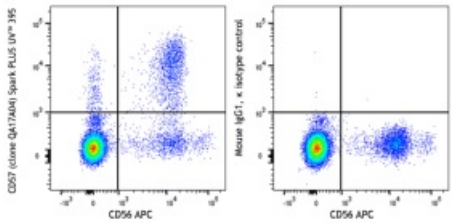
Catalog # / Size:	2571525 / 25 tests 2571530 / 100 tests
Clone:	KF29
Isotype:	Mouse IgG1, κ
Immunogen:	Human IL12RB2 transfected cells.
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Workshop Number:	IV T-186
Concentration:	Lot-specific



Human peripheral blood lymphocytes were stained with CD3 PE and CD224 (clone KF29) APC (left) or mouse IgG1, κ isotype control (right).

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.
Application Notes:	This clone can suppress anti-CD3 induced T cell proliferation *in vitro* based on in-house testing. This clone has been tested in-house and determined to not be suitable for applications in immunohistochemistry of paraffin-embedded tissue sections (IHC-P). Additional reported applications (for the relevant formats) include: Blocking[1].



Human peripheral blood lymphocytes were stained with anti-human CD56 (clone HCD56) APC and anti-human CD57 recombinant (clone QA17A04) Spark PLUS UV™ 395 (left) or mouse IgG1, κ Spark PLUS UV™ 395 isotype control (right).

Application References:

1. Stamm H, *et al*. 2018. *Oncogene*. Pubmed

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Description: CD224, also known as γ-Glutamyl transferase 1 (GGT1), is a type I gamma-glutamyltransferase, and a member of the threonine peptidase family. CD224 consistes of a 380 amino acid heavy chain and a 189 amino acid light chain, which are translated from a single mRNA. It protects cells from oxidative stress by participating in γ-glutamyl cycle. CD224 is expressed on subset of T cells, B cells, stem cell precursor, endothelial cells and epithelial cells. It expresses on kidney, duodenuma and small intestine.

Antigen References:

1. Mizushima T, *et al.* 2016. *BMC. Cancer.* 16:411.
2. Wang Q, *et al.* 2017. *Oncotarget.* 8(22): 36171–36184.
3. Jiang Y, *et al.* 2016. *Mol. Med.* 13(5):3813-20.
4. Karp DR, *et al.* 1999. *Int. Immunol.* 11(11):1791-800.

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