

Product Data Sheet

Alexa Fluor® 647 anti-human CD32

Catalog # / Size: 2116055 / 25 tests
2116060 / 100 tests

Clone: FUN-2

Isotype: Mouse IgG2b, κ

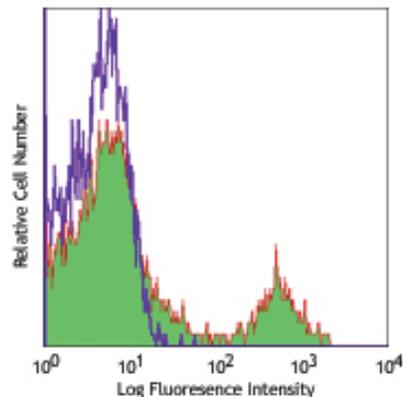
Workshop Number: VI B051

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions.

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

Storage: The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood lymphocytes stained with FUN-2 Alexa Fluor® 647

Applications:

Applications: FC - Quality tested

Application Notes: Additional reported applications (for the relevant formats) include: immunohistochemical staining³ of acetone-fixed frozen tissue sections.

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 μ l per million cells or 5 μ l per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.

Application References:

1. Kishimoto T, *et al.* 1997. Leucocyte Typing VI Garland Press. London.
2. Lerino F, *et al.* 1993. *J. Immunol.* 150:1794.
3. Personal communication.
4. van Tits L, *et al.* 2005. *Arterioscler Thromb Vasc Biol.* 25:717.
5. Smeltz RB, 2007. *J. Immunol.* 178:4786.
6. Ackerman ME, *et al.* 2011. *J Immunol Methods.* 366:8. PubMed
7. Sztittner Z, *et al.* 2013. *PLoS One.* 8:72401. PubMed

Description: CD32 is a 40 kD polymorphic transmembrane glycoprotein also known as Fc γ RII and FCRII. It is an immunoglobulin superfamily member expressed on monocytes/macrophages, granulocytes, platelets and B cells. There are at least 6 isoforms of CD32 resulting from alternative mRNA splicing. CD32 mediates phagocytosis and oxidative burst in granulocytes, as well as platelet aggregation and immunomodulation. The extracellular domain of CD32 binds to polymeric and aggregated IgG and immune complexes, while the intracellular domain has been reported to associate with SHP-1 (B1 isoform).

Antigen References:

1. Stuart S, *et al.* 1989. *EMBO J.* 8:3657.
2. Huang Y, *et al.* 1999. *Scand. J. Immunol.* 49:177.
3. Hisaka H, *et al.* 1999. *Pathobiology* 67:92.

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