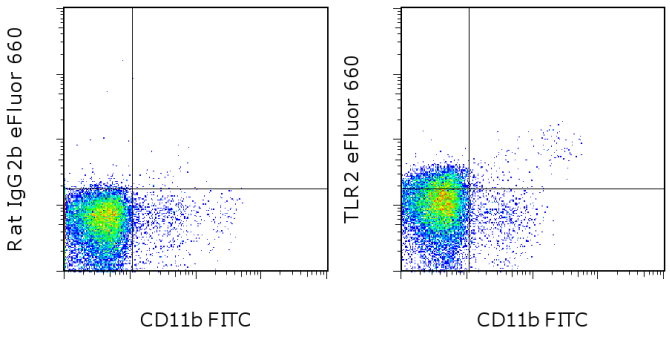
Anti-Mouse CD282 (TLR2) eFluor® 660 (Alexa Fluor® 647 Replacement)

Catalog Number: 50-9021
Also known as: TLR-2, toll-like receptor 2
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of BALB/c splenocytes with Anti-Mouse CD11b FITC (cat. 11-0112) and 0.06 ug of Rat IgG2b Isotype Control eFluor® 660 (cat. 50-4031) (left) or 0.06 ug of Anti-Mouse CD282 (TLR2) eFluor® 660 (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD282 (TLR2) eFluor® 660 (Alexa Fluor® 647 Replacement)
REF **Catalog Number:** 50-9021
Clone: 6C2
Concentration: 0.2 mg/mL
Host/Isotype: Rat IgG2b, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.
LOT **Batch Code:** Refer to vial
Use By: Refer to vial
Contains sodium azide

Description

The 6C2 monoclonal antibody reacts with mouse Toll-like receptor 2 (TLR2). Mouse TLR2 is expressed by the myeloid lineage, including macrophage and dendritic cells in splenocytes and the RAW264.7 cell line. To date, at least twelve members of the Toll family have been identified in human and mouse. This family of type I transmembrane proteins is characterized by an extracellular domain with leucine-rich repeats and a cytoplasmic domain with homology to the type I IL-1 receptor. Two of these receptors, TLR2 and TLR4, are pattern recognition receptors and signaling molecules in response to bacterial lipoproteins and have been implicated in innate immunity and inflammation. TLR2 is expressed on the surface of cells and is responsible for distinguishing different pathogens.

Applications Reported

This 6C2 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This 6C2 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

eFluor® 660 is a replacement for Alexa Fluor® 647. eFluor® 660 emits at 659 nm and is excited with the red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochome.

References

Gibson FC 3rd, Hong C, Chou HH, Yumoto H, Chen J, Lien E, Wong J, Genco CA. 2004. Innate immune recognition of invasive bacteria accelerates atherosclerosis in apolipoprotein E-deficient mice. Circulation. 109(22):2801-6.

Paterson HM, Murphy TJ, Purcell EJ, Shelley O, Kriynovich SJ, Lien E, Mannick JA, Lederer JA. Injury Primes the

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Innate Immune System for Enhanced Toll-Like Receptor Reactivity. J Immunol. 2003 Aug 1;171(3):1473-1483.

Nilsen NJ, Nonstad U, Khan N, Knetter CF, Akira S, Sundan A, Espevik T, Lien E. 2004. Lipopolysaccharide and double-stranded RNA upregulate toll-like receptor 2 independently of myeloid differentiation factor 88. J Biol Chem. 279(38):39727-35.

Frasnelli ME, Tarussio D, et al. 2005. TLR2 modulates inflammation in zymosan-induced arthritis in mice. Arthritis Res Ther. 7(2):R370-9. (**6C2**, IHC frozen, PubMed)

Ziegler G, Harhausen D, et al. 2007. TLR2 has a detrimental role in mouse transient focal cerebral ischemia. Biochem Biophys Res Commun. 359(3):574-9. (**6C2**, IHC frozen, PubMed)

Hoffmann O, Braun JS, et al. 2007. TLR2 mediates neuroinflammation and neuronal damage. J Immunol. 15;178(10):6476-81. (**6C2**, ICC, PubMed)

Related Products
00-4222 Flow Cytometry Staining Buffer
00-4300 10X RBC Lysis Buffer (Multi-species)
11-0112 Anti-Mouse CD11b FITC (M1/70)
50-4031 Rat IgG2b Isotype Control eFluor® 660

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