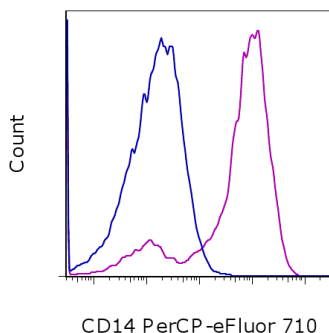


Anti-Mouse CD14 PerCP-eFluor[®] 710

Catalog Number: 46-0141

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of mouse thioglycolate-elicited peritoneal exudate cells with 0.25 ug of Rat IgG2a K Isotype Control PerCP-eFluor[®] 710 (cat. 46-4321) (blue histogram) or 0.25 ug of Anti-Mouse CD14 PerCP-eFluor[®] 710 (purple histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD14 PerCP-eFluor[®] 710



Catalog Number: 46-0141

Clone: Sa2-8

Concentration: 0.2 mg/mL

Host/Isotype: Rat IgG2a, 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.



Batch Code: Refer to vial



Use By: Refer to vial



Contains sodium azide

Description

The Sa2-8 monoclonal antibody reacts with mouse CD14, a 53-55 kDa GPI-linked glycoprotein. CD14 is a receptor for the complexes of LPS and LBP (LPS-Binding Protein) and is shown to associate with Toll-Like Receptor 4 (TLR4) and participate in the signaling and cellular response to bacterial LPS. In mouse, CD14 is expressed on the surface of macrophages and under certain conditions is also found in the serum in a secreted form. Sa2-8 has weak antagonistic activity (in NF-kappaB activation or TNF alpha production with LPS stimulation).

Applications Reported

This Sa2-8 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This Sa2-8 antibody has been tested by flow cytometric analysis of mouse thioglycolate-elicited peritoneal cells. This can be used at less than or equal to 0.5 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

PerCP-eFluor[®] 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. **PerCP-eFluor[®] 710** emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

References

Akashi S, Saitoh S, Wakabayashi Y, Kikuchi T, Takamura N, Nagai Y, Kusumoto Y, Fukase K, Kusumoto S, Adachi

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Y, Kosugi A, Miyake K. Lipopolysaccharide interaction with cell surface Toll-like receptor 4-MD-2: higher affinity than that with MD-2 or CD14. J Exp Med. 2003 198(7): 1035-42.

Related Products

46-4321 Rat IgG2a K Isotype Control PerCP-eFluor® 710 (eBR2a)