

Datasheet for ABIN5668203

Recombinant anti-F4/80 antibody



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Overview

Quantity:	200 µg
Target:	F4/80 (EMR1)
Reactivity:	Mouse
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Chimeric
Conjugate:	This F4/80 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-F4/80 [Cl:A3-1 (recombinant version)], Rabbit IgG, kappa
Immunogen:	Thioglycollate stimulated peritoneal macrophages of mouse origin.
Clone:	Cl:A3-1
Isotype:	IgG kappa
Specificity:	This antibody recognises the mouse F4/80 antigen, a 160kD glycoprotein, expressed by murine macrophages.
Characteristics:	Original Species of Ab: Rat Original Format of Ab: IgG2b
Purification:	Protein A affinity purified

Target Details

Target:	F4/80 (EMR1)
Alternative Name:	F4/80 (EMR1 Products)
Background:	Mouse macrophage marker, EMR1 receptor, EGF-like module, Cell surface glycoprotein F4/80, EGF-like module receptor 1, Em Gpf4, TM7, Ly-71, f480, f-480, f4 80, f 480, f-4/80, f4-80
UniProt:	Q61549

Application Details

Application Notes:	The anti-F4/80 antibody, clone Cl:A3-1, has been very widely used in flow cytometry, microscopy and Western blotting since its generation by Austyn and Gordon in 1980. We are the only supplier of recombinant versions of Cl:A3-1 which, whilst having the same variable domains as the original, has been shown to block hybridoma derived anti-F4/80:APC binding to <i>in vitro</i> generated bone marrow-derived (BMDMs) and <i>ex vivo</i> splenic murine macrophages. This was tested using both the recombinant version of the original isotype (rat IgG2b) as well as a murinised version (IgG2a, Ab00106-2.0). Further testing on BMDMs shows that our Fc Silent™ rat IgG2b is a valuable new reagent which shows distinct labelling of F4/80-positive cell populations, whilst the isotype control shows no binding, suggesting that only the antigen binding domains are involved in binding, promoting precision of labelling. The murinised versions will be valuable tools in the study of the role of the murine macrophage <i>in vivo</i> without the artefacts rat-derived antigen being co-administered may harbour. Particularly the murine IgG2a (Ab00106-2.0) should be an excellent candidate for macrophage depletion studies, with the Fc Silent™ (Ab00106-2.3) version being the ideal negative control. Using our recombinant production platform, any species and isotype are possible and our Support Team (support@absoluteantibody.com) will be glad to help you with finding the right variant to match your experimental needs.
Comment:	This chimeric rabbit antibody was made using the variable domain sequences of the original Rat IgG2b format, for improved compatibility with existing reagents, assays and techniques.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	PBS with 0.02 % Proclin 300.
Preservative:	ProClin

Handling

Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.