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Datasheet for ABIN2689502 anti-EMR4 antibody

Overview

Quantity:	0.5 mg
Target:	EMR4
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This EMR4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro)), Flow Cytometry (FACS)

Product Details

Brand:	BD Pharmingen™
Immunogen:	CHO cells expressing recombinant FIRE fusion protein
Clone:	6F12
Isotype:	IgG2a kappa
Characteristics:	<p>The 6F12 antibody reacts with a 7-transmembrane-domain protein, which is similar to the F4/80 macrophage antigen of the EGF-TM7 protein family and is encoded by the Emr4 gene. The FIRE protein is expressed on myeloid cells with a dendritic cell (DC) developmental potential, including subsets of DC and macrophages in the spleen and lymph nodes, most resident peritoneal macrophages, many peripheral blood monocytes, and a subpopulation of bone-marrow myeloid-cell progenitors. The protein is not detected on peripheral T and B lymphocytes, and it is down-regulated on thioglycollate-elicited peritoneal macrophages and on</p>

Product Details

dendritic cells activated by GM-CSF, IFN- γ , anti-CD40, and LPS. Using soluble biotinylated fusion protein, a FIRE ligand was detected on a mouse IgG+ B lymphoma cell line (A20), but not on myeloid, fibroblast, or T-cell lines, suggesting that the FIRE protein may be involved in immunoregulatory interactions between antigen-presenting cells and B lymphocytes. Three- analysis of the expression of FIRE on bone-marrow leukocytes. BALB/c bone-marrow leukocytes were stained with either purified rat IgG2a, κ isotype control mAb R35-95 (Cat. No. 553297, left panels) or purified mAb 6F12 (right panels), in the presence of Mouse BD Fc Block™ purified anti-mouse CD16/CD32 mAb 2.4G2 (Cat. No. 553141/553142), followed by biotinylated anti-rat IgG2a mAb RG7/1.30 (Cat. No. 553894), then Streptavidin-APC (Cat. No. 554067). Myeloid cells were identified by staining with FITC-conjugated anti-mouse CD11b mAb M1/70 (Cat. No. 557396/553310, upper panels) and dendritic cells were identified with PE-conjugated anti-mouse Cd11c mAb HL3 (Cat. No. 557401/553802, bottom panels). The right panels demonstrate that the hematopoietic precursors which express FIRE protein are CD11b[intermediate]CD11c-. Flow cytometry was performed on a BD FACSCalibur™ flow cytometry system.

BD Pharmingen™ Purified Rat Anti-Mouse F4/80-Like Receptor - Purified - Clone 6F12 - Isotype Rat IgG2a, κ - Reactivity Ms - 0.5 mg

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
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Target Details

Target:	EMR4
Alternative Name:	F4/80-Like Receptor (EMR4 Products)
Background:	Synonyms: FIRE

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Concentration:	0.5 mg/mL
Buffer:	Aqueous buffered solution containing ≤ 0.09 % sodium azide.

Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store undiluted at 4°C.