

KO572

For research use only

Anti Mouse Fcα/μR Monoclonal Antibody

Clone No. TX61

This antibody was prepared by Dr. Akira Shibuya, Tsukuba University.

Code No. KO572
Target Fcα/μR
Category Immunology
Gene ID 64435
Primary Source MGI:1927803
Synonyms MGC129330; MGC129331; Fcamr

Type Monoclonal Antibody
Immunogen Mouse Fcα/μR expressing cell line

Raised in Fcα/μR deficient mouse

Myeloma Sp2/0

Clone number TX61

Purification ProteinG

Source Serum-free medium

Isotype IgG1,κ

Cross Reactivity Human

Label Unlabeled

Concentration 0.25 mg/mL

Contents (Volume) 50 μg (200 μL/vial)

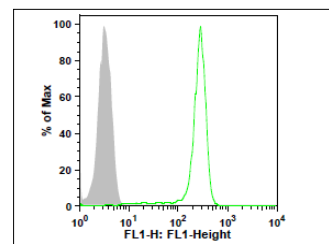
Buffer PBS [containing 2% Block Ace as a stabilizer, 0.1% Proclin as a bacteriostat]

Storage Store at - 20 °C long term, store at 4 °C short term. Avoid repeated freeze-thaw cycles.

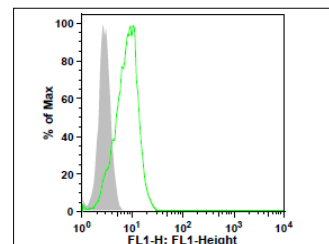
Application IP,FCM,IF

ELISA	WB	IHC	ICC
Not tested	Not tested	Not tested	Not tested
IP	FCM	IF	Neutralization
5.0-10	0.5-1.0	5.0-10	-

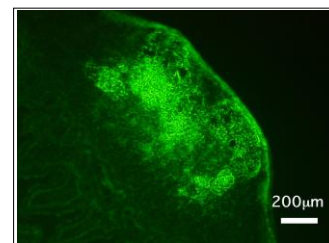
(μg/mL)



[FCM] Mouse FCAMR expressing Ba/F3 cells



[FCM] Human FCAMR expressing Ba/F3 cells



[IF] Mouse peyer's patch

Reference

- Shibuya A, et al. "Fc alpha/mu receptor mediates endocytosis of IgM-coated microbes." Nat Immunol. 2000 Nov;1(5):441-6.
- Cho Y, et al. "Molecular characteristics of IgA and IgM Fc binding to the Fc alpha/muR." Biochem Biophys Res Commun. 2006 Jun 23;345(1):474-8. *Application Reference
- Honda S, et al. "Enhanced humoral immune responses against T-independent antigens in Fc alpha/muR-deficient mice." Proc Natl Acad Sci U S A. 2009 Jul 7;106(27):11230-5.

UniPlot Summary

//Function: Functions as a receptor for the Fc fragment of IgA and IgM. Binds IgA and IgM with high affinity and mediates their endocytosis. May function in the immune response to microbes mediated by IgA and IgM.

//Subcellular location: Cell membrane; Single-pass type I membrane protein.

//Tissue specificity: Expressed in several tissues including thymus, spleen, liver, kidney, small and large intestine, testis and placenta. Expressed by oligodendrocytes, B cells and macrophages but not granulocytes, T cells or NK cells (at protein level).

//Sequence similarities: Contains 1 Ig-like V-type (immunoglobulin-like) domain.