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**KO572**

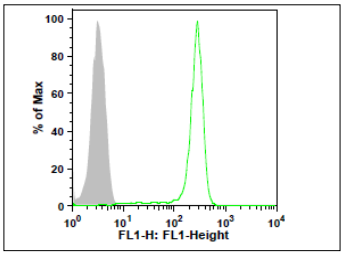
For research use only

# Anti Mouse Fcα/μR Monoclonal Antibody

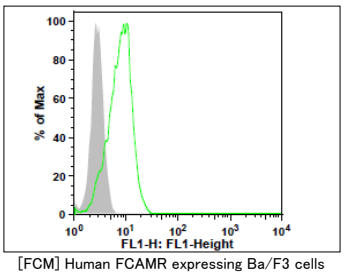
**Clone No. TX61**

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

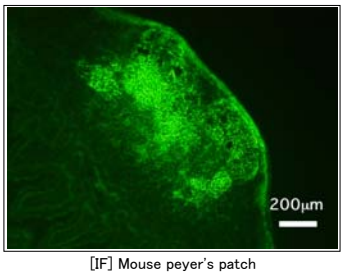
| | |
|---|---|
| **Code No.** | KO572 |
| **Terget** | Fcα/μR |
| **Category** | Immunology |
| **Gene ID** | 64435 |
| **Primary Source** | MGI:1927803 |
| **Synonyms** | MGC129330; MGC129331; Fcamr |
| **Type** | Monoclonal Antibody |
| **Immunogen** | Mouse Fcα/μR expressing cell line |
| **Raised 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℃ long term, store at 4℃ short term. Avoid repeated freeze-thaw cycles. |
| **Application** | IP,FCM,IF |



[FCM] Mouse FCAMR expressing Ba/F3 cells



[FCM] Human FCAMR expressing Ba/F3 cells



[IF] Mouse peyer's patch

| 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)

## Reference

1. Shibuya A, et al. "Fc alpha/mu receptor mediates endocytosis of IgM-coated microbes." Nat Immunol. 2000 Nov;1(5):441-6.
2. Cho Y, et al. "Molecular characteristics of IgA and IgM Fc binding to the Fcalpha/muR." Biochem Biophys Res Commun. 2006 Jun 23;345(1):474-8. *Application Reference
3. 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.