



**KAL-KO571**

For research use only

# Anti Mouse Fc $\alpha$ / $\mu$ R Monoclonal Antibody

**Clone No. TX57**

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

**Code No.** KO571  
**Target** Fc $\alpha$ / $\mu$ R  
**Category** Immunology  
**Gene ID** 64435  
**Primary Source** MGI:1927803  
**Synonyms** MGC129330; MGC129331; Fc $\alpha$ mR

**Type** Monoclonal Antibody  
**Immunogen** Mouse Fc $\alpha$ / $\mu$ R expressing cell line

**Raised in** Fc $\alpha$ / $\mu$ R deficient mouse  
**Myeloma** Sp2/0  
**Clone number** TX57  
**Purification** ProteinG  
**Source** Serum-free medium

**Isotype** IgG1, $\kappa$   
**Cross Reactivity** -  
**Label** Unlabeled

**Concentration** 0.25 mg/mL  
**Contents (Volume)** 50  $\mu$ g (200  $\mu$ L/vial)

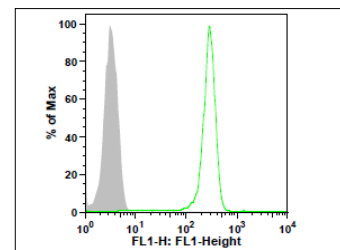
**Buffer** PBS [containing 2% Block Ace as a stabilizer, 0.1% Proclin as a bacteriostat]

**Storage** Store at -20  $^{\circ}$ C long term, store at 4  $^{\circ}$ C short term. Avoid repeated freeze-thaw cycles.

**Application** IP,FCM,IF,Neutralization

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	0.5-1.0

( $\mu$ g/mL)



[FCM] Mouse FCAMR expressing Ba/F3 cells

## 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.

Manufactured by TransGenic Inc.



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