Data Sheet (Cat.No.TMAY-00791)

TargetMol

Anti-CD89 Antibody (5W394)

Product Details

Ig Type:	Mouse IgG1
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	5W394
Purification:	Protein A

Applications

Verified Activity:	Flow cytometric analysis of Human CD89 expression on Human blood granulocytes. Cells were stained with purified anti-Human CD89, then a FITC-conjugated second step antibody. The histogram were derived from gated events with the forward and side light-scatter characteristics of viable granuolcytes.
Application:	ELISA,FCM
Recommended	ELISA: 1:1000-1:2000; FCM: 1:25-1:100

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human CD89 protein (TMPY-00716)
Antigen Species:	Human
Synonyms:	Fc fragment of IgA receptor;FcαRI;FCAR;XXbac-BPG230H20.5;CD89;FcalphaRI;CTB-61M7.2
Biology Area:	ITIM/ITAM Immunoreceptors and Related Molecules, Fc Receptors

Research Background

FCAR, also called FcαRI or CD89, is a type I transmembrane receptor for Fc region of IgA which is the most abundant immunoglobulin in mucosal areas but is only the second most common antibody isotype in serum. This receptor is present on the surface of myeloid lineage cells such as neutrophils, monocytes, macrophages, and eosinophils, especially phagocytes located in mucosal areas. Upon ligand IgA binding, FcαRI associates with the FcR γ signaling molecule bearing the immunoreceptor tyrosine-based activation motif (ITAM) through a unique charge-based mechanism and triggers multiple cell-mediated immune responses. It has been reported that Fc RI is a dual-function receptor that can mediate both inflammatory and anti-inflammatory responses depending on the type of interaction with its ligand. Sustained aggregation of FCAR results in activation of target-cell functions such as antigen presentation and cytokine release. In contrast, Monomeric targeting with serum IgA or with a variety of anti-FcαRI Fab fragments triggers an inhibitory response and additionally induces apoptosis. FcαRI thus play an fundamental role in preventing tumor development and growth, as well as in controlling inflammation.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481