

## Product datasheet for **TA386529**

### CD89 (FCAR) Rabbit Monoclonal Antibody [Clone ID: 14A8 (14.1)]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	14A8 (14.1)
Applications:	ELISA, FC, IP
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG, kappa
Clonality:	Monoclonal
Immunogen:	The original antibody was generated by immunizing HCO12 transgene containing mice with recombinant soluble CD89 antigen.
Specificity:	This antibody binds CD89 in the extracellular domain 2, outside the IgA-binding site.

This antibody binds human CD89 with a dissociation constant of  $K_d = 6.8 \times 10^{-10} M$ . The binding of this antibody to human CD89 was confirmed with ELISA. This antibody was also capable of recognizing human CD89 expressing cells like human PMNL cells by flow cytometry. This antibody is not capable of blocking binding of IgA to CD89. This antibody can be used to immunoprecipitate soluble CD89 (US7192582). A bispecific antibody construct incorporating the variable regions of the anti-gp41 antibody F240 and the anti-CD89 (immunoglobulin A [IgA] receptor) antibody 14A8 was reported to promote destruction of HIV type 1 (HIV-1) by neutrophils (PMID: 18272577). A Fab-like bispecific antibody molecule or Bi-Fab antibody generated from F240scFv and 14A8scFv showed significant antibody dependent cell-mediated viral inhibition (ADCVI) activity for multiple clade B and clade C isolates by arming the neutrophils to inhibit HIV infection (PMID: 27419146).

Formulation:	PBS with 0.02% Proclin 300.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Please store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Avoid freeze and thaw cycles.
Stability:	3 years from dispatch.
Gene Name:	Fc fragment of IgA receptor



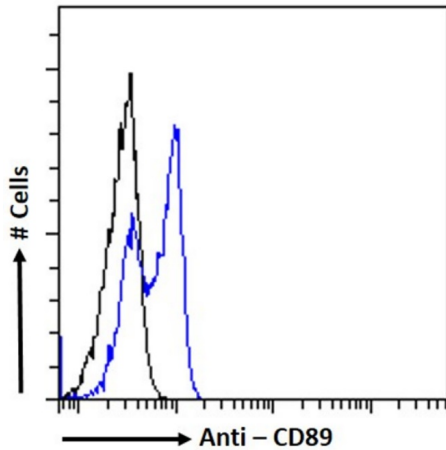
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Database Link: [Entrez Gene 2204 Human P24071](#)

Synonyms: CD89

Note: This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

### Product images:



Flow cytometry using the Anti-CD89 antibody 14A8 (14.1) (TA386529). Paraformaldehyde fixed human peripheral blood monocytes permeabilized with 0.5% Triton were stained with anti-unknown specificity antibody ([TA385792]; isotype control, black line) or the rabbit IgG version of 14A8 (14.1) (TA386529, blue line) at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor® 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.