COSMO BIO CO., LTD.
Inspiration for Life Science

MONOCLONAL ANTIBODY

For research use only. Not for clinical diagnosis.

Catalog No. BAM-72-008-EX

Anti-FcεR1α (human IgE receptor), FITC-labeled IgG

BACKGROUND

FcεR1α is subunit of the high affinity receptor of IgE to which it directly binds. FcεR1α is a tetrameric complex consisting of one α, one β and two γ subunits. The latter two are required for signal transduction activity. The FcεR1 complex plays an important role in triggering allergic responses.

The CRA2 (AER24) monoclonal antibody reacts with the FcεR1α subunit on a region that overlaps the region of the IgE binding site, thus it competes with IgE for the receptor binding. Since the CRA1 (AER37) monoclonal antibody reacts with the site different from the IgE binding site on FcεR1α, it does not compete with IgE for the receptor binding. Combining the two antibodies, one can quantitatively measure the amounts of the IgE-bound FcεR1α.

The IgG fraction is purified from serum free culture medium of mouse hybridoma (CRA2) by propriety chromatography under mild conditions.

This product is an FITC-labeled IgG ([FITC]/[IgG] = 8.9) produced from the IgG fraction. It is reported that CRA2 recognizes 85-172 (domain 2) amino acid domain of FcεR1α[3].

Product type	Primary antibodies
Host	Mouse
Source	Supernatant
Form	Liquid Purified monoclonal antibody (IgG) 1mg/ml in PBS (pH 7.4) 50% glycerol, sterile-filtered, azide-free
Volume	50 μg
Concentration	1 mg/ml
Specificity	FcεR1α (human IgE receptor)
Antigen	FcεR1α
Clone	CRA2
Isotype	IgG1κ

Application notes	FC, IHC, Titration of IgE-bound fraction of the FcεR1α using CRA1 and CRA2 antibodies **Recommended use** **Recommended dilutions** Optimal dilutions/concentrations should be determined by the end user. **Staining Pattern**
Cross reactivity	Human
Storage	-20°C (for long period, -70°C)
References	The usage of this antibody is reported in ref. 3.

1) Ra C et al., Nature 341: 752 (1989)

2) Hakimi J et al., J. Biol. Chem 265: 22079 (1990)

3) Takai T et al., Biosci. Biotechnol. Biochem. 64: 1856 (2000) (PubMed)

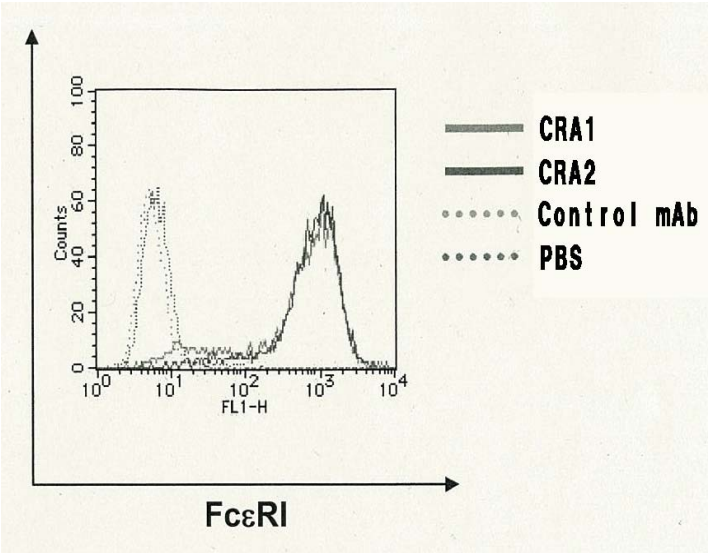

Fig. FACS analysis of CHO/αβγ cells (1x105) with CRA1 and CRA2 antibodies by Indirect-immunostaining, using FITC-labeled secondary antibody.

Related Products

BAM-72-001-EX	(Clone: CRA1)	Anti-FcεR1α (human IgE receptor)
BAM-72-003-EX	(Clone: CRA1)	Anti-FcεR1α (human IgE receptor), Biotinylated IgG
BAM-72-004-EX	(Clone: CRA1)	Anti-FcεR1α (human IgE receptor), FITC-labeled IgG
BAM-72-005-EX	(Clone: CRA2)	Anti-FcεR1α (human IgE receptor)
BAM-72-007-EX	(Clone: CRA2)	Anti-FcεR1α (human IgE receptor), Biotinylated IgG

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Manufactured by BioAcademia Inc.

COSMO BIO CO., LTD.
Inspiration for Life Science
TOYO 2CHOME, KOTO-KU, TOKYO, 135-0016, JAPAN
URL: http://www.cosmobio.co.jp e-mail: export@cosmobio.co.jp
[Outside Japan] Phone : +81-3-5632-9617 [国内連絡先] Phone : +81-3-5632-9610
FAX : +81-3-5632-9618 FAX : +81-3-5632-9619