

ARG22548 anti-IL4 antibody [CC313]

Package: 250 µg
Store at: -20°C

Summary

Product Description	<p>Mouse Monoclonal antibody [CC313] recognizes IL4</p> <p>This antibody recognizes for bovine interleukin 4 (IL-4), also known as B-cell stimulatory factor 1. Bovine interleukin-4 is a 15 kDa, 135 amino acid peptide which is processed to a mature secreted form with the cleavage of a 24 amino acid, N-terminal signal peptide resulting in a 12.6 kDa active cytokine, the apparent Mw may be altered by glycosylation (Heussler et al. 1992). IL-4 is expressed by a range of cells including T and B cells, macrophages and monocytes. It plays an important role in the regulation of bovine T and B cell responses. Mouse anti Bovine interleukin-4, clone CC313 has been used successfully as a coating antibody in a sandwich ELISA with biotinylated Mouse anti Bovine IL-4 antibody, clone CC314 as a detection reagent both with bovine (Stabel et al. 2011) and ovine samples (Olivier et al. 2012). Clones CC313 and CC314 have been used in the reverse configuration for the measurement of interleukin-4 in caprine samples (Marinara et al. 2012).</p>
Tested Reactivity	Bov, Goat, Sheep
Tested Application	ELISA
Host	Mouse
Clonality	Monoclonal
Clone	CC313
Isotype	IgG2a
Target Name	IL4
Species	Bovine
Immunogen	Recombinant bovine IL-4.
Conjugation	Un-conjugated
Alternate Names	BSF-1; IL-4; B-cell stimulatory factor 1; BCGF1; Lymphocyte stimulatory factor 1; BCGF-1; Interleukin-4; Pitracinra; Binetrakin; BSF1

Application Instructions

Application table	<table> <tr> <th>Application</th><th>Dilution</th></tr> <tr> <td>ELISA</td><td>2 - 5 µg/ml</td></tr> </table>	Application	Dilution	ELISA	2 - 5 µg/ml
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Application Note	<p>FACS: Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.</p> <p>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.</p>				

Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS and 0.09% Sodium azide
Preservative	0.09% Sodium azide

Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	IL4
Gene Full Name	interleukin 4
Background	The protein encoded by this gene is a pleiotropic cytokine produced by activated T cells. This cytokine is a ligand for interleukin 4 receptor. The interleukin 4 receptor also binds to IL13, which may contribute to many overlapping functions of this cytokine and IL13. STAT6, a signal transducer and activator of transcription, has been shown to play a central role in mediating the immune regulatory signal of this cytokine. This gene, IL3, IL5, IL13, and CSF2 form a cytokine gene cluster on chromosome 5q, with this gene particularly close to IL13. This gene, IL13 and IL5 are found to be regulated coordinately by several long-range regulatory elements in an over 120 kilobase range on the chromosome. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]
Function	Participates in at least several B-cell activation processes as well as of other cell types. It is a costimulator of DNA-synthesis. It induces the expression of class II MHC molecules on resting B-cells. It enhances both secretion and cell surface expression of IgE and IgG1. It also regulates the expression of the low affinity Fc receptor for IgE (CD23) on both lymphocytes and monocytes. [UniProt]
Calculated Mw	17 kDa