

A Reliable Research Partner in Life Science and Medicine

## Elab Fluor® 700 Anti-Human IL-4 Antibody[MP4-25D2]

Catalog Number: E-AB-F1203M1

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Descri	
LIGECTI	ntion
DESUL	

Reactivity Human Host Rat

 Isotype
 Rat IgG1, к

 Clone No.
 MP4-25D2

Isotype Control Elab Fluor® 700 Rat IgG1, κ Isotype Control[HRPN] [Product E-AB-F09822M1]

Conjugation Elab Fluor® 700

**Conjugation Information** Elab Fluor<sup>®</sup> 700 is designed to be excited by the Red laser (627-640 nm) and detected

using an optical filter centered near 719 nm (e.g., a 725/40 nm bandpass filter).

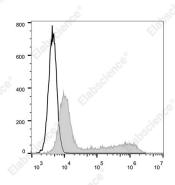
**Storage Buffer** Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

#### Applications Recommended usage

**FCM** 

Each lot of this antibody is quality control tested by flow cytometric analysis. The amount of the reagent is suggested to be used 5  $\mu$ L of antibody per test (million cells in 100  $\mu$ L staining volume or per 100  $\mu$ L of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.

#### Data



Intracellular staining of the 293T cells transfected with pcDNA3.1 plasmid encoding Human IL-4 gene with Elab Fluor  $^{\circledR}$  700 Anti-Human IL-4 Antibody[MP4-25D2](filled gray histogram) or Elab Fluor  $^{\circledR}$  700 Rat IgG1,  $\kappa$  Isotype Control(empty black histogram). Total viable cells were used for analysis.

#### **Preparation & Storage**

**Storage** Keep as concentrated solution.

This product can be stored at 2-8°C for 12 months. Please protected from prolonged

exposure to light and do not freeze.

Shipping Ice bag

#### **Antigen Information**

Alternate Names B-cell IgG differentiation factor;B-cell growth factor 1;BSF-1;IGG1 induction factor;IL-4;

Interleukin-4

### For Research Use Only

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# Elabscience®

#### **Elabscience Bionovation Inc.**

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 Uniprot ID
 P05112

 Gene ID
 3565

**Background** 

IL-4 is a pleiotropic cytokine that is produced by activated T cells, mast cells, and basophils. IL-4 elicits many different biological responses but has two dominant functions. The first is regulating differentiation of naïve CD4+ T cell to the Th2 type. Th2 cells produce IL-4, IL-5, IL-10, and IL-13, which tend to favor a humoral immune response while suppressing a cell-mediated immune response controlled by Th1 cells. The second is regulating IgE and IgG1 production by B cells.

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