



## Monoclonal Anti-human ENPP-3/CD203c Antibody

### ORDERING INFORMATION

**Catalog Number:** MAB5756

**Clone:** NP4D6

**Lot Number:** CCTT01

**Size:** 100 µg

**Formulation:** 0.2 µm filtered solution in PBS with 5% trehalose

**Storage:** -20° C

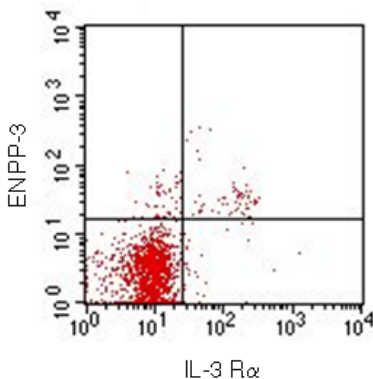
**Reconstitution:** sterile PBS

**Specificity:** human ENPP-3

**Immunogen:** human ENPP-3-transfected HEK-293 cells

**Ig class:** mouse IgG<sub>1</sub>

**Recommended Application:**  
Flow cytometry



PBMC lymphocytes were stained with anti-ENPP-3 (R&D Systems, Cat. # MAB5756) followed by APC-conjugated anti-mouse antibody (R&D Systems, Cat. # F0101B) and PE-conjugated anti-IL-3 R $\alpha$  (R&D Systems, Cat. # FAB301P). Quadrant markers were set based on isotype control staining (R&D Systems, Cat. # MAB002).

### Background

CD203c is a 150 kDa type II transmembrane glycoprotein with a short cytoplasmic tail. CD203c is also known as ectonucleotide pyrophosphatase/phosphodiesterase 3 (ENPP-3) and modulates purinergic signaling by hydrolysis of nucleotide triphosphates. CD203c is expressed on activated basophils and mast cells during allergic reactions, cardiac muscle, hepatocytes, and epithelial cells. It is upregulated in colon and bile duct carcinomas. Within the ECD, human CD203c shares 81% aa sequence identity with mouse and rat CD203.

### Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with human ENPP-3 transfected HEK-293 cells (rhENPP-3: Accession # O14638). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography.

### Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

### Reconstitution

Reconstitute with sterile PBS. If 0.2 mL of PBS is used, the antibody concentration will be 500 µg/mL.

### Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

### Specificity

This antibody detects human ENPP-3.

### Application

**Flow cytometry** - This antibody was tested for flow cytometry using blood-derived, IL-3R<sup>+</sup> cells. Dilute this antibody to 25 µg/mL and add 10 µL of the diluted solution to 1 - 2.5 x 10<sup>5</sup> cells in a total reaction volume not exceeding 200 µL. The binding of unlabeled antibodies may be visualized by adding a secondary developing reagent such as anti-mouse IgG conjugated to a fluorochrome. Between steps, wash cells in Flow Cytometry Staining Buffer (R&D Systems, Cat. # FC001) or equivalent.

**Optimal dilutions should be determined by each laboratory for each application.**

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**R&D Systems, Inc.**  
**1-800-343-7475**

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