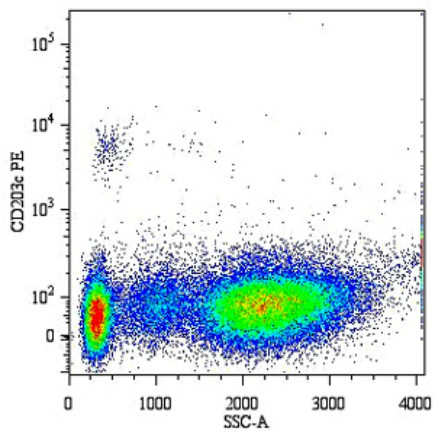
# ENPP3 monoclonal antibody, clone NP4D6

Catalog # MAB6497 Size 100 ug

## Applications




### Flow Cytometry

Surface staining of human basophils in allergen-stimulated whole blood (CD203cpos/ SSClow) by ENPP3 monoclonal antibody, clone NP4D6 (Cat # MAB6497).

## Specification

| | |
|---|---|
| **Product Description** | Mouse monoclonal antibody raised against native ENPP3. |
| **Immunogen** | Native purified from HEK293 cells transfected with human ENPP3. |
| **Host** | Mouse |
| **Reactivity** | Human |
| **Specificity** | This antibody NP4D6 reacts with CD203C, a transmembrane ectoenzyme expressed on basophils a nd mast cells, and overexpressed upon their activation. |
| **Form** | Liquid |
| **Isotype** | IgG1 |
| **Recommend Usage** | The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, pH 7.4 (0.09% sodium azide) |

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|---|---|
| **Storage Instruction** | Store at 4°C. Do not freeze.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Flow Cytometry

  Surface staining of human basophils in allergen-stimulated whole blood (CD203cpos/ SSClow) by ENPP3 monoclonal antibody, clone NP4D6 (Cat # MAB6497).

## Gene Info — ENPP3

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|---|---|
| **Entrez GeneID** | 5169 |
| **Gene Name** | ENPP3 |
| **Gene Alias** | B10, CD203c, NPP3, PD-IBETA, PDNP3 |
| **Gene Description** | ectonucleotide pyrophosphatase/phosphodiesterase 3 |
| **Omim ID** | 602182 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The protein encoded by this gene belongs to a series of ectoenzymes that are involved in hydrolys is of extracellular nucleotides. These ectoenzymes possess ATPase and ATP pyrophosphatase a ctivities and are type II transmembrane proteins. Expression of the related rat mRNA has been fou nd in a subset of immature glial cells and in the alimentary tract. The corresponding rat protein has been detected in the pancreas, small intestine, colon, and liver. The human mRNA is expressed in glioma cells, prostate, and uterus. Expression of the human protein has been detected in uterus, b asophils, and mast cells. [provided by RefSeq |
| **Other Designations** | OTTHUMP00000040272\|dJ1005H11.3 (phosphodiesterase I/nucleotide pyrophosphatase 3)\|dJ9 14N13.3 (phosphodiesterase I/nucleotide pyrophosphatase 3)\|gp130RB13-6\|phosphodiesterase I/nucleotide pyrophosphatase 3\|phosphodiesterase-I beta |

## Publication Reference

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- Hymenoptera-venom-induced upregulation of the basophil activation marker ecto-nucleotide pyrophosphatase/phosphodiesterase 3 in sensitized individuals.

  Platz IJ, Binder M, Marxer A, Lischka G, Valent P, Buhring HJ.

  International Archives of Allergy and Immunology 2001 Dec; 126(4):335.

  Application: Flow Cyt, Human, Basophils, Whole blood cells

- The basophil activation marker defined by antibody 97A6 is identical to the ectonucleotide pyrophosphatase/phosphodiesterase 3.

  Bühring HJ, Seiffert M, Giesert C, Marxer A, Kanz L, Valent P, Sano K.

  Blood 2001 May; 97(10):3303.

  Application: Flow Cyt, Human, HEK 293 cells

- The monoclonal antibody 97A6 defines a novel surface antigen expressed on human basophils and their multipotent and unipotent progenitors.

  Buhring HJ, Simmons PJ, Pudney M, Muller R, Jarrossay D, van Agthoven A, Willheim M, Brugger W, Valent P, Kanz L.

  Blood 1999 Oct; 94(7):2343.

## Pathway

- Metabolic pathways
- Nicotinate and nicotinamide metabolism
- Pantothenate and CoA biosynthesis
- Purine metabolism
- Riboflavin metabolism
- Starch and sucrose metabolism

## Disease

- Tobacco Use Disorder

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