



## **Monoclonal** **Anti-human Aminopeptidase P1/XPNPEP1 Antibody**

### **ORDERING INFORMATION**

**Catalog Number:** MAB29701

**Clone:** 409124

**Lot Number:** CAAG01

**Size:** 100 µg

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

**Storage:** -20° C

**Reconstitution:** sterile PBS

**Specificity:** human APP1

**Immunogen:** *E. coli*-derived rhAPP1

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

**Recommended Application:**  
Immunohistochemistry

### **Background**

Aminopeptidase P1 (APP1), also known as XPNPEP1 (X-prolyl aminopeptidase), is a proline-specific metalloaminopeptidase that specifically catalyzes the removal of any unsubstituted N-terminal amino acid that is adjacent to a penultimate proline residue. Deficiency of X-prolyl aminopeptidase results in excretion of large amounts of imino-oligopeptides in urine. The sequence of human APP1 is 99%, 97%, and 95% identical to that of canine, bovine, and mouse/rat.

### **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 purified, *E. coli*-derived, recombinant human APP1 (rhAPP1; aa 1 - 623; Accession # NP\_065116; R&D Systems, Catalog # 2970-ZN). 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 APP1 in direct ELISAs.

### **Application**

**Immunohistochemistry** - This antibody was used at a concentration of 25 µg/mL with appropriate secondary reagents to detect human APP1 in paraffin-embedded normal human bladder tissue sections. For chromogenic detection of labeling, the use of R&D Systems Cell and Tissue Staining Kits (CTS Series) is recommended.

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

**For immunohistochemistry images, please refer to our website at**  
<http://www.rndsystems.com/go/ihc>.