

**NPT Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1047a**

**Specification**

**NPT Antibody - Product Information**

Application	<b>WB, IHC</b>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG2a</b>

**Description**

Neomycin phosphotransferase II (nptII) gene is used in selection of transformed organisms. It was initially isolated from the transposon Tn5 that was present in the bacterium strain Escherichia coli K12. The gene codes for the aminoglycoside 3'-phosphotransferase (denoted aph(3')-II or NPTII) enzyme. NPTII is probably the most widely used selectable marker for plant transformation. It is also used in gene expression and regulation studies in different organisms in part because N-terminal fusions can be constructed that retain enzymatic activity. In animal cells, G418 and neomycin are used as selectable agents.

**Immunogen**

Purified recombinant fragment of NPT expressed in E. Coli.

**Formulation**

Ascitic fluid containing 0.03% sodium azide.

**NPT Antibody - Additional Information**

**Dilution**

WB~~1/500 - 1/2000  
 IHC~~1:200~~1000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

NPT Antibody is for research use only and

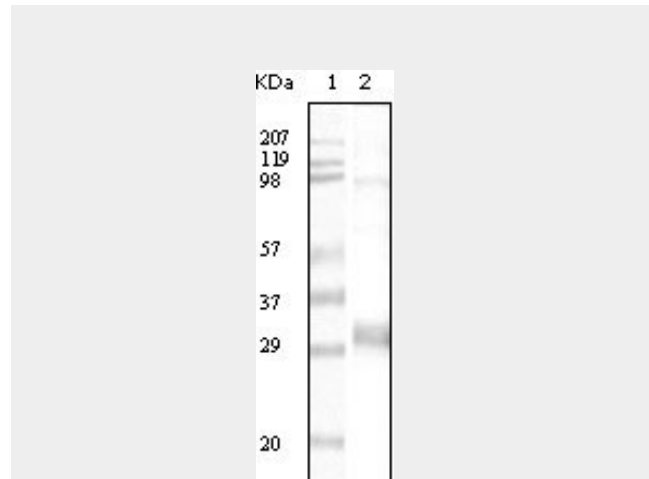


Figure 1: Western blot analysis using NPT mouse mAb against truncated NPT recombinant protein.

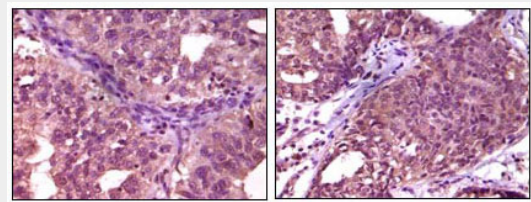


Figure 2: Immunohistochemical analysis of paraffin-embedded human ovary carcinoma (left) and breast carcinoma (right), showing cytoplasmic localization using EphA1 mouse mAb with DAB staining.

**NPT Antibody - References**

1. Landis WG et.al Human and ecological Risk Assessment 6(5): 875-899.
2. Stewart CN et.al BioTechniques 29(4): 832-843.
3. Thomson JA et.al Journal of Food Science 66(2): 188-193.

not for use in diagnostic or therapeutic procedures.

#### **NPT Antibody - Protein Information**

#### **NPT Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **NPT Antibody - Citations**

- [Decreased Eph receptor-A1 expression is related to grade in ovarian serous carcinoma.](#)