

NPT Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1047a

Product Information

Application	WB, E
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	4B4D1
Isotype	IgG2a
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.

Additional Information

Dilution	WB~~1/500 - 1/2000 E~~N/A
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 not for use in diagnostic or therapeutic procedures.

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.

Images

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

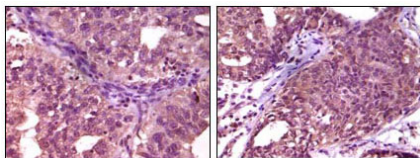
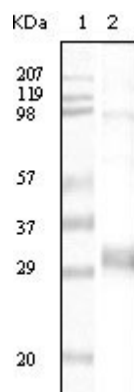


Figure 2: Immunohistochemical analysis of paraffin-embedded human ovary carcinoma (left) and breast carcinoma (right), showing cytoplasmic localization using EphA1 mouse mAb with DAB staining.

Citations

- [Decreased Eph receptor \$\alpha\$ 1 expression is related to grade in ovarian serous carcinoma.](#)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.