

**AM06115SU-N****Monoclonal Antibody to NPT - Ascites**

<b>Quantity:</b>	0.1 ml
<b>Background:</b>	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.
<b>Host / Isotype:</b>	Mouse / IgG2a
<b>Clone:</b>	4B4D1
<b>Immunogen:</b>	Purified recombinant fragment of NPT expressed in E. Coli.
<b>Format:</b>	<b>State:</b> Ascitic fluid containing 0.03% sodium azide.
<b>Applications:</b>	<b>Western Blot:</b> 1/500 - 1/2000. <b>ELISA:</b> 1/10000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody reacts to NPT.
<b>Species Reactivity:</b>	<b>Tested:</b> Human.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Landis WG et.al Human and ecological Risk Assessment 6(5): 875-899. 2. Stewart CN, Richards HA, Halfhill MD. Transgenic plants and biosafety: science, misconceptions and public perceptions. Biotechniques. 2000 Oct;29(4):832-6, 838-43. PubMed PMID: 11056815. 3. Thomson JA et.al Journal of Food Science 66(2): 188-193.

## Pictures:

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

