

Monoclonal Antibody to NPT

Cat. #: Mab-605124

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/Specificity:

Ni-NTA purified truncated recombinant NPT expressed in *E. Coli* strain BL21 (DE3)

Applications :

Western Blot: Dilution 1: 500- 1: 2,000

ELISA: Propose dilution 1: 10,000.

Determining optimal working dilutions by titration test.

Formulation

Antibodies are purified by protein A affinity chromatography.

Reference:

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.

Clone Number: 4B4D1

Isotype:IgG2a

Species: Human

Storage and Stability: stored at -20 C

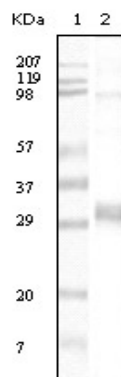


Figure 1: Western blot analysis using anti- human NPT monoclonal antibody against recombinant NPT expressed in *E. Coli*.