



Rabbit Anti-NPTII/Neomycin Phosphotransferase 2 antibody

SL19203R

Product Name:	NPTII/Neomycin Phosphotransferase 2
Chinese Name:	新霉素磷酸转移酶2抗体
Alias:	Aminoglycoside 3' phosphotransferase; APH(3') II; APH(3')II; aphA; EC 2.7.1.95; Kan; Kanamycin kinase type II; Kanamycin kinase, type VIII; kanamycin resistance gene; Neo; Neomycin kanamycin phosphotransferase type II; Neomycin kanamycin phosphotransferase type VIII; Neomycin phosphotransferase II; Neomycine phosphotransferase; NPT II; NPTII.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Escherichia coli, Reacts with bacteria.
Applications:	WB=1:500-2000 ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 ICC=1:100-500 IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	32kDa
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Neomycin Phosphotransferase 2:101-200/264
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 癆 for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20 癆. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 癆.
PubMed:	PubMed
Product Detail:	Neomycin phosphotransferase II confers resistance to kanamycin and neomycin in

bacteria and G418 (Geneticin? G418 Sulfate) in mammalian cells. These antibiotics bind to ribosomal components and inhibit protein synthesis. NPT II inhibits these antibiotics through phosphorylation, which is thought to interfere with their active transport into the cell. Immunoblot analysis of transfected cell lysates with anti NPT II can be used to gauge relative transfection efficiencies in experiments where multiple transfections are performed in parallel with different plasmids.

Similarity:

Belongs to the aminoglycoside phosphotransferase family.

Database links:

[SwissProt: P00552](#) Klebsiella pneumoniae

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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