

Basic Information

Product Name	Anti-NQO1 Antibody
Gene Name	NQO1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, rat
Tested Application	WB
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human NQO1 different from the related mouse and rat sequences by five amino acids.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	31 kDa
Dilution Ratios	Western blot (WB):1:500-2000

Storage

12 months from date of receipt, -20°C as supplied.

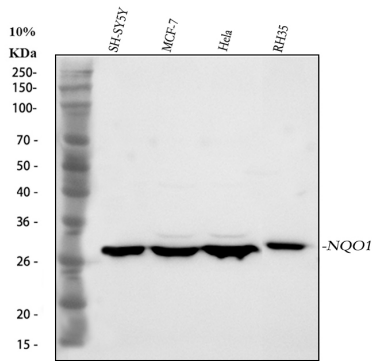
Background Information

This gene is a member of the NAD(P)H dehydrogenase (quinone) family and encodes a cytoplasmic 2-electron reductase. And this FAD-binding protein forms homodimers and reduces quinones to hydroquinones. In addition, this protein's enzymatic activity prevents the one electron reduction of quinones that results in the production of radical species. Mutations in this gene have been associated with tardive dyskinesia (TD), an increased risk of hematotoxicity after exposure to benzene, and susceptibility to various forms of cancer. Altered expression of this protein has been seen in many tumors and is also associated with Alzheimer's disease (AD). Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

Reference

Anti-NQO1 Antibody被引用在7文献中。

Selected Validation Data



Western blot analysis of NQO1 using anti-NQO1 antibody (PB0526). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human SH-SY5Y whole cell lysates,

Lane 2: human MCF-7 whole cell lysates,

Lane 3: human Hela whole cell lysates,

Lane 4: rat RH-35 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-NQO1 antigen affinity purified polyclonal antibody (PB0526) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for NQO1 at approximately 31 kDa. The expected band size for NQO1 is at 31 kDa.