

Mouse Monoclonal anti-NQO1 (A180), Sample Size

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| Catalog Number: | NB200-209SS |
| Background: | NQO1 is a 2-electron reductase that detoxifies quinones derived from the oxidation of phenolic metabolites of benzene. Individuals homozygous for the T/T form of the 609C-T polymorphism have an increased risk of benzene hematotoxicity. |
| Alternate Names: | anti-DHQU antibody; anti-DIA4 antibody; anti-Diaphorase (NADH/NADPH) (cytochrome b-5 reductase) antibody; anti-Diaphorase (NADH/NADPH) antibody; anti-Diaphorase 4 antibody; anti-DTD antibody; anti-NAD(P)H dehydrogenase quinone 1 antibody; anti-NAD(P)H: menadione oxidoreductase 1 dioxin inducible 1 antibody; anti-NMOR1 antibody; anti-NMOR1 antibody; anti-QR1 antibody; anti-NQO-1 antibody; anti-NADPH quinone oxidoreductase-1 antibody |
| Host: | Mouse |
| Research Areas: | Cancer Research, IHC Grade |
| Immunogen: | Full length recombinant NQO1 (from human lung). |
| Clone: | A180 |
| Isotype: | IgG1 |
| Specificity: | This antibody is specific for NQO1. It does not cross-react with NQO2. |
| Localization: | Cytoplasmic (primarily), nuclear (faintly) |
| Species Reactivity: | Cross-reacts with human and rat. Cross-reacts with monkey and dog in immunohistochemistry. Cross-reactivity with mouse is extremely poor. Not yet tested in other species. |
| Uses: | This antibody works well in Western blot where a single band at ~31 kDa is seen. No other applications have been tested. The investigator should determine the optimal working dilution for a specific application. * Other applications have not been tested. |
| Dilutions: | Suggested working dilutions * immunohistochemistry , immunofluorescence , immunoprecipitation , Western Blot 1:1,000-1:10,000 * Investigator should determine optimal working dilutions. |
| Packaging: | 0.025 ml IgG purified Mouse ascites. |
| Concentration: | 1 mg/ml |
| Buffer: | Tris-glycine and 150mM NaCl |
| Preservative: | 0.05% sodium azide |
| Storage: | Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles. |
| Limitations: | This product is for research use only and is not approved for use in humans or in clinical diagnosis. This product is guaranteed for 6 months from date of receipt. |

- Product Specific References:**
1. Siegel, et al. *Clinical Can. Res.* 4: 2065-2070 (1998)
 2. Siegel, et al. *Free Radical Biol. Med.* 29: 246-253 (2000)
 3. Slitt, A. L., Cherrington, N. J., Dieter, M. Z., Aleksunes, L. M., Scheffer, G. L., Huang, W., Moore, D. D., and Klaassen, C. D. (2006) trans-Stilbene Oxide Induces Expression of Genes Involved in Metabolism and Transport in Mouse Liver via CAR and Nrf2 Transcription Factors, *69*, 1554-1563.

- Novus Specific References:**
1. Slitt, A.L., et al. trans-Stilbene oxide induces expression of genes involved in metabolism and transport in mouse liver via CAR and Nrf2 transcription factors. *Mol. Phaymacol.* 69:1554-1563, 2006.
 2. Lee, J. C., F. Bhora, et al. (2008). Dietary flaxseed enhances antioxidant defenses and is protective in a mouse model of lung ischemia-reperfusion injury. *Am J Physiol Lung Cell Mol Physiol* 294: L255-265.