

## Product datasheet for **AM09380PU-N**

### **NQO2 Mouse Monoclonal Antibody [Clone ID: AT1E3]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	AT1E3
<b>Applications:</b>	ELISA, WB
<b>Recommended Dilution:</b>	ELISA. Western blot (1:250 - 1:500).
<b>Reactivity:</b>	Human, Mouse
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Recombinant human NQO2 (1-231aa) purified from E. coli
<b>Specificity:</b>	The antibody recognizes human and mouse NQO2. Other species not tested.
<b>Formulation:</b>	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Protein-G affinity chromatography
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	NAD(P)H quinone dehydrogenase 2
<b>Database Link:</b>	<a href="#">Entrez Gene 18105 Mouse</a> <a href="#">Entrez Gene 4835 Human</a> <a href="#">P16083</a>



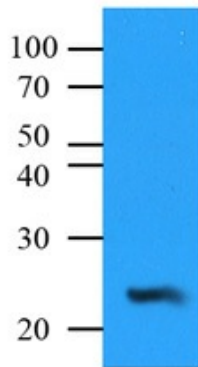
[View online »](#)

**Background:**

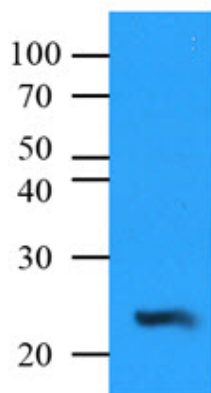
Quinone oxidoreductase (NQO1 and NQO2) are cytosolic proteins that catalyze metabolic reduction of quinines and derivatives. NQO2 is inhibited by flavones such as quercetin. Also benzo(a)pyrene is another known inhibitor of NQO2. Even though overlapping substrate specificities have been observed for NQO1 and NQO2, such as for CB1954 activation, significant differences exist in relative affinities for the various substrates. The detoxification role of NQO2 has not been found, and it has no known endogenous biological substrates. However, NQO1 plays an important role in the detoxification of various endogenous and exogenous quinones, including estrogen quinones. Also NQO2 has a melatonin-binding site, which may explain the anti-oxidant role of melatonin related with circadian rhythm.

**Synonyms:**

NMOR2

**Product images:****Mouse Liver**

Mouse liver lysates (35ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NQO2 (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

**Mouse Liver**

Western blot analysis: Mouse liver lysates (35 ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NQO2 (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.