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NQO1 (A180) Mouse mAb

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Applications: W, IHC-P, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 29	Source/Isotype: Mouse IgG1	UniProt ID: #P15559	Entrez-Gene Id: 1728		
Product Usage Information		Application Western Blotting Immunohistochemist Immunofluorescence		iistry)		Dilution 1:1000 1:50 1:400		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sen	sitivity	NQO1 (A180) Mouse mAb detects endogenous levels of total NQO1 protein.						
Source / Purifi	cation	NQO1 (A180) Mouse mAb is produced by immunizing mice with purified recombinant human NQO1.						
Background		NAD(P)H:quinone oxidoreductase 1 (NQO1) is a flavoprotein that catalyzes the two-electron reduction of quinones and their derivatives (1,2). This enzyme protects cells against redox cycling and oxidative stress (1,3). The expression of NQO1 is increased in liver, colon and breast tumors and non-small cell lung cancer (NSCLC) compared with the normal tissues (1,2). Moreover, expression levels are also elevated in developing tumors, suggesting a role for NQO1 in the prevention of tumor development (1). Studies on NQO1 knockout mice suggest that the lack of NQO1 enzymatic activity changes intracellular redox states resulting in a reduction in apoptosis, which in turn leads to myeloid hyperplasia of bone marrow (2).						
Background Ro	eferences	1. Belinsky, M. and Jaiswal, A.K. (1993) <i>Cancer Metastasis Rev.</i> 12, 103-117. 2. Siegel, D. et al. (1998) <i>Clin. Cancer Res.</i> 4, 2065-2070. 3. Long, D.J. et al. (2002) <i>Cancer Res.</i> 62, 3030-3036.						
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot E	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications K	ey	W: Western Blotting IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivit	ty Key	H: Human						
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