Ablumir
Built Around Immunology

Anti-NQO1 Rabbit mAb [71F09]

Catalog No.: A52244

Basic Information

Catalog No. (Cat.No.)	A52244
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IP,IF,ELISA
Synonyms	NQO1,DT-diaphorase,NAD(P)H dehydrogenase [quinone] 1

Product Information

Target	NQO1
Molecular Weight(Calculated)	31 kDa
Molecular Weight(Observed)	31 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	71F09
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

Ablumir
Built Around Immunology

Product Usage Information

Application	Dilution
WB	1:1000-1:5000
IHC	1:200-1:1000
IP	1:50-1:200
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	NAD(P)H quinone dehydrogenase-1
Gene Name	*NQO1*
Domain	NA
Background	NQO1 (NAD(P)H quinone dehydrogenase 1) is cytosolic phase-II detoxification oxidoreductase family protein responsible for quinone detoxification and anti-oxidant defense. Using NAD(P)H as co-factor, NQO1 catalyzes two-electron reduction of quinones to prevent semiquinone-radical formation and mitigate oxidative damage. Transcriptionally controlled by Nrf2, NQO1 represents canonical downstream effector of antioxidant response. It metabolizes xenobiotics and shields cells from chemical and oxidative insult. NQO1 is frequently overexpressed in tumors to counteract oxidative microenvironment; certain small-molecule prodrugs are bio-activated in NQO1-high tumor cells. Loss-of-function polymorphism of NQO1 impairs detoxification capacity and increases disease susceptibility.