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Anti-Nrf2 Rabbit pAb (A72165)

Catalog No.: A72165

Basic Information

Catalog No. (Cat.No.)	A72165
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Synonyms	Nrf2,NFE2L2

Product Information

Target	Nrf2
Molecular Weight(Calculated)	68 kDa
Molecular Weight(Observed)	75-100 kDa
Isotype	IgG
Conjugation	NA
Concentration	1 mg/ml
Clonality	Polyclonal
Clone No.	NA
RRID	NA
Storage buffer	50% Glycerol, 0.5% BSA and 0.02% 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

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Product Usage Information

Application	Dilution
WB	1:500-1:2000
IHC	1:100-1:300
IF	1:200-1:1000
ELISA	1:40000

Target Information

Protein Name	Nuclear factor erythroid-2-related factor-2
Gene Name	*NFE2L2*
Domain	human Nrf2, aa 556-605
Background	Nrf2 (NFE2-like bZIP transcription factor 2) is bZIP leucine-zipper transcription-factor family protein acting as master regulator of cellular antioxidant and phase-II detoxification response. Under basal conditions Nrf2 interacts with KEAP1 for continuous ubiquitination and degradation. Oxidative or electrophilic stress modifies KEAP1, enabling Nrf2 stabilization and nuclear import. Nrf2 heterodimerizes with small Maf proteins, binds antioxidant-response-element (ARE) and up-regulates cytoprotective genes such as HO-1 and NQO1 to counteract ROS and xenobiotic injury. Dysregulated Nrf2 signaling links to inflammation, neurodegeneration and cancer; constitutive Nrf2 stabilization confers chemoresistance in malignancies. Nucleo-cytoplasmic partitioning of Nrf2 indicates pathway activation status.