NFE2L2 Polyclonal Antibody

E91244

Catalog Number: E91244
Amount: 100ul
Background: The nuclear factor-like 2 (NRF2) transcriptional activator binds antioxidant response elements (ARE) of target gene promoter regions to regulate expression of oxidative stress response genes. Under basal conditions, the NRF2 inhibitor INrf2 (also called KEAP1) binds and retains NRF2 in the cytoplasm where it can be targeted for ubiquitin-mediated degradation (1). Small amounts of constitutive nuclear NRF2 maintains cellular homeostasis through regulation of basal expression of antioxidant response genes. Following oxidative or electrophilic stress, KEAP1 releases NRF2, thereby allowing the activator to translocate to the nucleus and bind to ARE-containing genes (2). The coordinated action of NRF2 and other transcription factors mediates the response to oxidative stress (3). Altered expression of NRF2 is associated with chronic obstructive pulmonary disease (COPD) (4). NRF2 activity in lung cancer cell lines directly correlates with cell proliferation rates, and inhibition of NRF2 expression by siRNA enhances anti-cancer drug-induced apoptosis (5).
Species: Rabbit
Isotype: IgG
Storage/Stability: Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Synonyms: NFE2L2;NRF2 ;
Immunogen: Recombinant proteinof human NFE2L2
Purification: Affinity purification
Reactivity: H M R
Applications: WB IHC
Molecular Weight: 68kDa
Swiss-Prot No. : Q16236
Gene ID: 4780
References: 1. Cullinan, S.B. et al. (2004) Mol Cell Biol 24, 8477-86. 2. Nguyen, T. et al. (2005) J Biol Chem 280, 32485-92. 3. Jaiswal, A.K. (2004) Free Radic Biol Med 36, 1199-207. 4. Suzuki, M. et al. (2008) Am J Respir Cell Mol Biol 39, 673-82. 5. Homma, S. et al. (2009) Clin Cancer Res 15, 3423-32.

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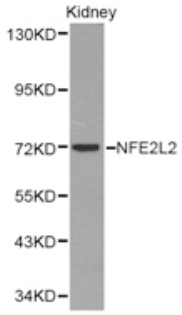
WB 1:500 - 1:2000

IHC 1:50- 1:200



Western blot analysis of kidney cell lysateusing NFE2L2 antibody.

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