Product datasheet

Anti-KEAP1 Antibody

Catalog Number: *PB0813*

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Basic Information

Product Name	Anti-KEAP1 Antibody
Gene Name	KEAP1
Source	Rabbit
Isotype	IgG
Species Reactivity	human
Tested Application	WB
Contents	500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	E.coli-derived human Keap1 recombinant protein (Position: E25-E205). Human Keap1 shares 96.7% and 97.2% amino acid (aa) sequence identity with mouse and rat Keap1, respectively.
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	66-72KD
Dilution Ratios	Western blot(WB):1:500-2000

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

KEAP1 (KELCH-LIKE ECH-ASSOCIATED PROTEIN 1), is a protein that in humans is encoded by the Keap1 gene. The KIAA0132 gene is mapped on 19p13.2. Keap1 contains a central BTB/POZ domain and a C-terminal double glycine repeat (DGR), or Kelch, module. Keap1 has been shown to interact with Nrf2, a master regulator of the antioxidant response, which is important for the amelioration of oxidative stress. In the presence of the electrophilic agent diethylmalate, Nrf2 activity is released from Keap1 and Nrf2 translocate to the nucleus. Under quiescent conditions, Nrf2 is anchored in the cytoplasm through binding to Keap1, which, in turn, facilitates the ubiquitination and subsequent proteolysis of Nrf2. Because Nrf2 activation leads to a coordinated antioxidant and anti-inflammatory response, and Keap1 represses Nrf2 activation, Keap1 has become a very attractive drug target.

Reference

Anti-KEAP1 Antibody被引用在3文献中。

Selected Validation Data

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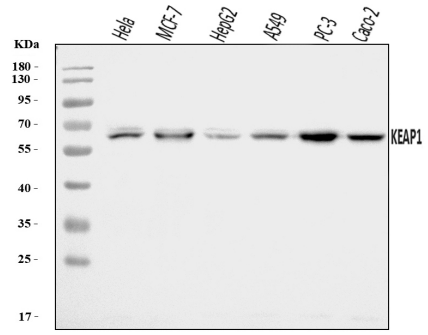

Figure 1. Western blot analysis of Keap1 using anti-Keap1 antibody (PB0813). The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: HELA Whole Cell Lysate,Lane 2: MCF-7 Whole Cell Lysate,Lane 3: HEPG2 Whole Cell Lysate,Lane 4: A549 Whole Cell Lysate, Lane 5: PC-3 Whole Cell Lysate, Lane 6: CACO-2 Whole Cell Lysate.The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for Keap1 at approximately 66KD. The expected band size for Keap1 is at 70KD.