

Basic Information

Product Name	Anti-NRF2/NFE2L2 Antibody	
Gene Name	NFE2L2	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	human	
Tested Application	WB, IHC, ICC/IF, FCM, ELISA	
Contents	500 ug/ml antibody with PBS , 0.02% NaN ₃ , 1 mg BSA and 50% glycerol.	
Immunogen	E.coli-derived human NFE2L2 recombinant protein (Position: R34-N605).	
concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	100KD	
Dilution Ratios	Western blot(WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow cytometry (FCM): 1-3 µg/1x10 ⁶ cells ELISA: 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

Storage

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

Background Information

NFE2L2(nuclear factor (erythroid-derived 2)-like 2) also known as NRF2 or NFE2-RELATED TRANSCRIPTION FACTOR 2, is a transcription factor that in humans is encoded by the NFE2L2 gene. NFE2, NFE2L1, and NFE2L2 comprise a family of human genes encoding basic leucine zipper (bZIP) transcription factors. NFE2L2 induces the expression of various genes including those that encode for several antioxidant enzymes, and it may play a physiological role in the regulation of oxidative stress. The NFE2L2 gene is located on 2q31.2. The identification of somatic mutations that disrupt the NRF2-KEAP1 interaction to stabilize NRF2 and increase the constitutive transcription of NRF2 target genes indicated that enhanced reactive oxygen species (ROS) detoxification and additional NRF2 functions may in fact be tumorigenic. Oncogene-directed increased expression of Nrf2 is a mechanism for the activation of the Nrf2 antioxidant program evident in primary cells and tissues of mice expressing KRas(G12D) and BRaf(V619E), and in human pancreatic cancer.

Reference

Anti-NRF2/NFE2L2 Antibody被引用在10文献中。

Selected Validation Data

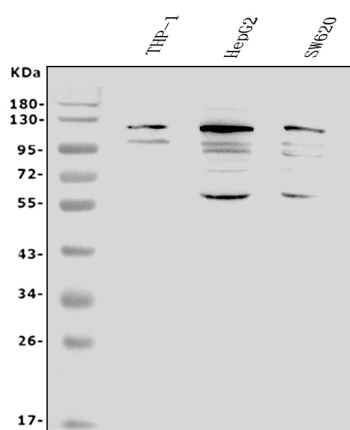


Figure 1. Western blot analysis of anti- NRF2 antibody (A00078-1).The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human THP-1 whole cell lysates,Lane 2: human HEPG2 whole cell lysates,Lane 3: human SW620 whole cell lysates.Use rabbit anti- NRF2 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for NRF2 at approximately 100KD. The expected band size for NRF2 is at 68KD.