

NRF1 Rabbit mAb

Catalog No.: A3252

Recombinant

7 Publications

Basic Information

Observed MW

68kDa

Calculated MW

54kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P, IP, ChIP, CUT&Tag

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC0768

Background

This gene encodes a protein that homodimerizes and functions as a transcription factor which activates the expression of some key metabolic genes regulating cellular growth and nuclear genes required for respiration, heme biosynthesis, and mitochondrial DNA transcription and replication. The protein has also been associated with the regulation of neurite outgrowth. Alternative splicing results in multiple transcript variants. Confusion has occurred in bibliographic databases due to the shared symbol of NRF1 for this gene and for "nuclear factor (erythroid-derived 2)-like 1" which has an official symbol of NFE2L1.

Recommended Dilutions

WB 1:500 - 1:2000

IHC-P 1:50 - 1:200

IP 0.5µg-4µg antibody for
200µg-400µg extracts of
whole cellsChIP 5µg antibody for
10µg-15µg of ChromatinCUT&Tag 10⁵ cells /1 µg

Immunogen Information

Gene ID

4899

Swiss Prot

Q16656

Immunogen

A synthetic peptide corresponding to a sequence within amino acids 300-400 of human NRF1 (Q16656).

Synonyms

ALPHA-PAL; NRF1

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

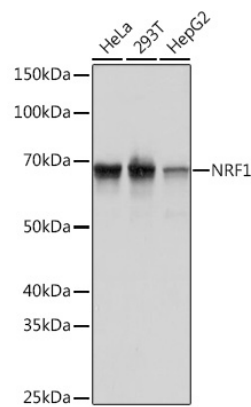
Affinity purification

Storage

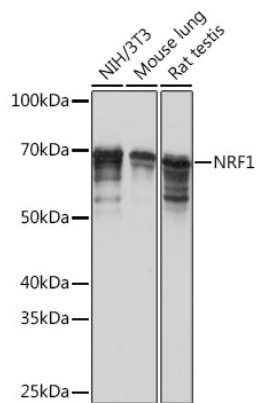
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

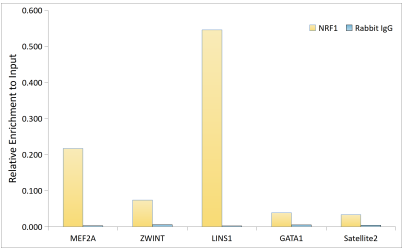
Validation Data



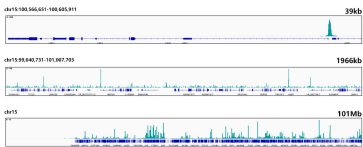
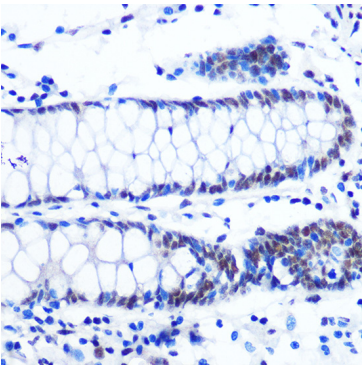
Western blot analysis of various lysates using NRF1 Rabbit mAb (A3252) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.



Western blot analysis of various lysates using NRF1 Rabbit mAb (A3252) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 5s.



Chromatin immunoprecipitation analysis of extracts of HepG2 cells, using NRF1 antibody (A3252) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



Validation Data

Immunohistochemistry analysis of paraffin-embedded human colon using NRF1 Rabbit mAb (A3252) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.

CUT&Tag was performed using the CUT&Tag Assay Kit (pAG-Tn5) for Illumina(RK20265) from 10⁵ HepG2 cells with 1 µg NRF1 Rabbit mAb (A3252), along with a Goat Anti-Rabbit IgG(H+L). The CUT&Tag results indicate the enrichment pattern of NRF1 in representative gene loci (LINS1), as shown in figure.