# NRF2 Rabbit mAb

## Catalog No.: A30083

Recombinant

www.abclonal.com

## Basic Information

**Observed MW**
97-100 kDa

**Calculated MW**
68 kDa/66 kDa/65 kDa

**Category**
Monoclonal Antibodies

**Applications**
WB, IP, IF/ICC, ChIP, ELISA

**Cross Reactivity**
Human, Mouse

**Clone No.**
ARC3843

## Background

This gene encodes a transcription factor which is a member of a small family of basic leucine zipper (bZIP) proteins. The encoded transcription factor regulates genes which contain antioxidant response elements (ARE) in their promoters; many of these genes encode proteins involved in response to injury and inflammation which includes the production of free radicals. Multiple transcript variants encoding different isoforms have been characterized for this gene.

## Recommended Dilutions

**WB** 1:3000 - 1:7000

**IP**
0.5 μg - 4 μg antibody for 700 μg - 900 μg extracts of whole cells

**IF/ICC** 1:100 - 1:500

**ChIP**
2 μg antibody for 10 μg - 15 μg of Chromatin

**ELISA**
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000), a sequential dilution method is strongly recommended to ensure measurement accuracy.

## Immunogen Information

**Gene ID**
4780

**Swiss-Prot**
Q16236

**Immunogen**
This information is considered to be commercially sensitive.

**Synonyms**
NRF2; HEBP1; Nrf-2; IMDDHH

## Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn


## Product Information

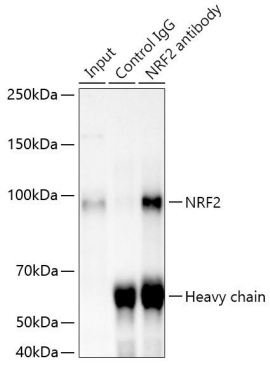
**Source**
Rabbit

**Isotype**
IgG

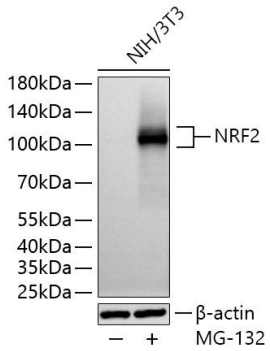
**Purity**
Affinity purification

**Storage**
Store at -20℃

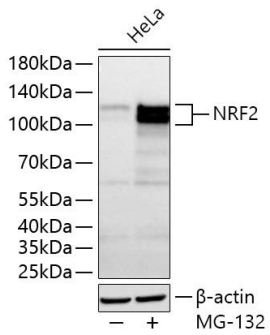
## Validation Data



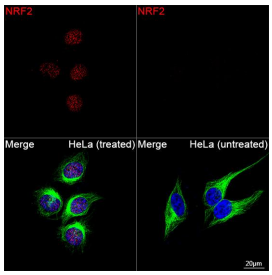

Immunoprecipitation of NRF2 from 700 µg extracts of NIH/3T3 cells treated with MG-132 was performed using 2 µg of NRF2 Rabbit mAb (A30083). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using NRF2 Rabbit mAb (A30083) at a dilution of 1:1000.



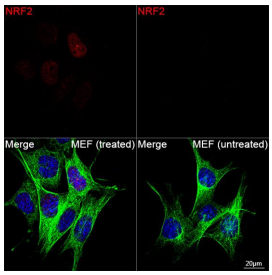

Western blot analysis of lysates from NIH/3T3 cells using NRF2 Rabbit mAb (A30083) at 1:7000 dilution incubated overnight at 4°C. NIH/3T3 cells were treated with MG-132 (10 µM) for 7 hours after serum starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30 s.



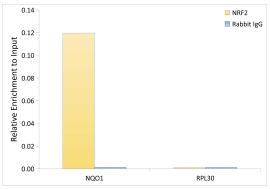

Western blot analysis of lysates from HeLa cells using NRF2 Rabbit mAb (A30083) at 1:7000 dilution incubated overnight at 4°C. HeLa cells were treated with MG-132 (10 µM) for 7 hours after serum starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90 s.




Confocal imaging of HeLa cells (treated with MG-132) and HeLa cells (untreated) using NRF2 Rabbit mAb (A30083, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) (AS037, dilution 1:800) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.




Confocal imaging of MEF cells (treated with MG-132) and MEF cells (untreated) using NRF2 Rabbit mAb (A30083, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) (AS037, dilution 1:800) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.




Chromatin immunoprecipitation was performed with 15 µg of cross-linked chromatin from MEF cells were treated with DEM (50 µM, 3 h), using 2 µg of NRF2 Rabbit mAb (A30083) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.