

ABfinity™ Nrf2 Recombinant Rabbit Oligoclonal Antibody

Store at 2°C to 8°C (short-term), or -20°C (long-term)

Catalog Number 710574

Pub. No. MAN0009607 Rev. 1.00

Clonality: Oligoclonal

Host/Class: Rabbit IgG

Reactivity: Human Nrf2

Volume: 200 μL **Concentration**: 0.5mg/mL

Product Description

Nrf2 (nuclear factor erythroid 2-related factor 2) is a transcription activator which plays a key role in protecting the cell from oxidative stress and inflammation. It is primarily localized in the cytoplasm under normal conditions, but under conditions of oxidative stress, Nrf2 migrates to the nucleus to upregulate expression of genes with ARE (antioxidant response elements) in the promoter region. The upregulated genes include those involved in cellular protection, drug transport, detoxification, and anti-oxidant defense. The protein is ubiquitously expressed in various tissues, with the highest levels found in kidney, muscle, lung, heart, liver, and brain.

Product Specifications

Immunogen: Recombinant protein corresponding to

amino acids 352-605 of human Nrf2

 Apparent MW:
 ~68 kDa

 Gene ID:
 4780

Synonyms: NRF2, HEBP1, NFE2L2

Protein Accession No.: Q16236
Sequence Identity: Human
Isotype: IqG

Lot: See product label

Product Applications

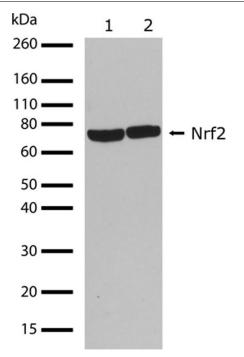
Application	Species	Test Material	Concentration
Western blotting	Human	U20S and HeLa cells	0.5–2 μg/mL
Immuno- cytochemistry	Human	U20S and HeLa cells	1–2 μg/mL

Storage and handling

Store the antibody at 2°C to 8°C for up to 1 month, or –20°C for long storage. Avoid repeated freezing and thawing.

Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.



Predicted Reactivity: Human

Figure 1 Western blot analysis of ABfinity™ Nrf2 Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710574).

Western blot analysis was performed on whole extracts of U2OS and HeLa cells (Lanes 1–3 respectively). U2Os cells were treated with TBHQ (200 μ M for 3hr), and HeLa cells were treated with Menadione (100 μ M for 1hr). Endogenous level of Nrf2 was detected at -68 kDa using ABfinity 17c Recombinant Rabbit Oligoclonal Antibody at a concentration of 0.5 μ g/mL, followed by Goat Anti-Rabbit HRP (Cat. no. G21234) as a secondary antibody. The blot was developed using enhanced chemiluminescence (ECL) method.

Storage buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.



CAUTION! Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheet (SDS) and follow the handling instructions. Wear appropriate protective eyewear, clothing and gloves. SDSs are available at **www.lifetechnologies.com/support**.

Product documentation

To obtain a Certificate of Analysis or Safety Data Sheet (SDS), visit http://www.lifetechnologies.com/support.

Limited product warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale found on Life Technologies' website at www.lifetechnologies.com/termsandconditions. If you have any questions, please contact Life Technologies at www.lifetechnologies.com/support.

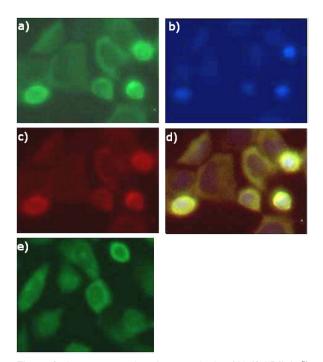


Figure 2 Immunocytochemistry analysis of Nrf2 ABfinity™ Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710574).

Immunocytochemistry analysis of ABfinity™ Nrf2 Recombinant Rabbit Oligoclonal Antibody using a: U20S cells with Alexa Fluor® 488 goat anti-rabbit as a secondary antibody (green). b: DAPI stained U20S nuclei (blue). c: Actin stained U20S with Alexa Fluor® 594 phalloidin (red). d: Composite image of cells showing cytoplasmic localization of Nrf2. e: HeLa cells with Alexa Fluor® 488 goat anti-rabbit as a secondary antibody (green).

Explanation of symbols

Symbol	Description	Symbol	Description	Symbol	Description
•••	Manufacturer	REF	Catalog number	LOT	Batch code
	Use by		Temperature limitation		
	Consult instructions for use	<u> </u>	Caution, consult accompanying documents		

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