

Datasheet for ABIN129526
anti-NRF1 antibody (AA 1)[Go to Product page](#)[2 Images](#)[3 Publications](#)

Overview

Quantity:	500 µg
Target:	NRF1
Binding Specificity:	AA 1
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NRF1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	This protein A purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a purified recombinant mouse NRF1 protein corresponding to - 534 of the Native Immunogentype:Recombinant
Isotype:	IgG
Characteristics:	Concentration Definition: by UV absorbance at 280 nm

Target Details

Target:	NRF1
Alternative Name:	NRF1 (NRF1 Products)
Background:	NRF1 (also known as nuclear respiratory factor 1, alpha palindromic binding protein and alpha-

Target Details

pal) is the mammalian homolog to the erect wing (ewg) Drosophila protein that is required for proper development of the central nervous system and indirect flight muscles. In mammals NRF1 functions as a transcription factor that activates the expression of the EIF2S1 (EIF2-alpha) gene. This protein links the transcriptional modulation of key metabolic genes to cellular growth and development and has been implicated in the control of nuclear genes required for respiration, heme biosynthesis, and mitochondrial DNA transcription and replication. NRF1 forms a homodimer and binds DNA as a dimer. NRF1 shows a nuclear localization and is widely expressed in embryonic, fetal, and adult tissues. Phosphorylation of NRF1 enhances DNA binding. Multiple splice variants have been identified for this protein.

Synonyms: alpha pal antibody, alpha palindromic binding protein antibody, locus control region factor 1 antibody, NFE2 related factor 1 antibody, nuclear respiratory factor 1 antibody, transcription factor 11 antibody

Gene ID: 18181, 13529317

UniProt: [Q9WU00](#)

Pathways: [Regulation of Lipid Metabolism by PPARalpha](#)

Application Details

Application Notes: This protein A purified antibody has been tested for use in ELISA, immunohistochemistry and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 67 kDa in size corresponding to NRF1 by western blotting in the appropriate cell lysate or extract. Splice variants exist for this protein that may result in the detection of lower molecular weight bands.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 2.3 mg/mL

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

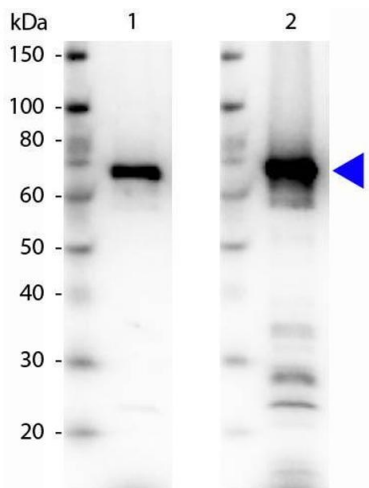
Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

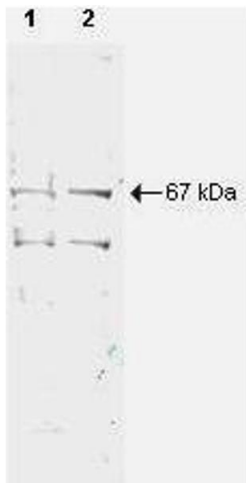
Product cited in: Yasunaga, Ohtsubo, Ohno, Saeki, Kurogi, Tanaka-Okamoto, Ishizaki, Shirai, Mihara, Brock, Miyoshi, Takihara: "Scmh1 has E3 ubiquitin ligase activity for geminin and histone H2A and regulates geminin stability directly or indirectly via transcriptional repression of Hoxa9 and Hoxb4." in: **Molecular and cellular biology**, Vol. 33, Issue 4, pp. 644-60, (2013) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot of Rabbit Anti-NRF1 antibody. Lane: NRF1-HIS recombinant protein. Load: 50 ng per lane. Primary antibody - 1: NRF1 antibody at 1:1,000 overnight at 4°C. Primary antibody - 2: 6xHIS Epitope tag antibody at 1:1,000 overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:40,000 for 30 min at RT. Blocking: ABIN925618 for 30 min at RT. Predicted/observed size: 67 kDa, 67 kDa for NRF1-His tagged. Other band(s): None.



Western Blotting

Image 2. Western blot using Protein A Purified anti-NRF1 antibody shows detection of a 67-kDa band corresponding to human NRF1 in a (lane 1) HeLa nuclear extract and (lane 2) whole cell lysate (molecular weight marker not shown). Approx. 10 µg of each lysate was separated by SDS-PAGE and transferred onto nitrocellulose. The blot was incubated with a 1:500 dilution of the antibody at room temperature for 1 h followed by detection using 700 labeled Goat-a-Rabbit IgG [H&L] diluted 1:2,500. 700 fluorescence image was captured using the Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.