


Anti-NRF1 antibody ab34682

★★★★★ [3 Abreviews](#) [41 References](#) [4 Images](#)

Overview

Product name	Anti-NRF1 antibody
Description	Rabbit polyclonal to NRF1
Host species	Rabbit
Specificity	ab34682 recognises NRF1 (also known as nuclear respiratory factor 1, alpha palindromic binding protein and alpha-pal).
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Rat, Chicken, Dog, Chimpanzee, Zebrafish 
Immunogen	Recombinant full length protein, corresponding to amino acids 1-534 of Mouse NRF1
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 0.42% Potassium phosphate, 0.87% Sodium chloride
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab34682 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (3)	1/500 - 1/2000. Detects a band of approximately 67 kDa (predicted molecular weight: 57 kDa). Splice variants exist for this protein that may result in the detection of lower molecular weight bands.
IHC-P		Use a concentration of 2 - 5 µg/ml.
ICC/IF		Use a concentration of 1 µg/ml.

Target

Function

Transcription factor that activates the expression of the EIF2S1 (EIF2-alpha) gene. Links the transcriptional modulation of key metabolic genes to cellular growth and development. Implicated in the control of nuclear genes required for respiration, heme biosynthesis, and mitochondrial DNA transcription and replication.

Tissue specificity

Ubiquitously expressed with strongest expression in skeletal muscle.

Sequence similarities

Belongs to the NRF1/Ewg family.

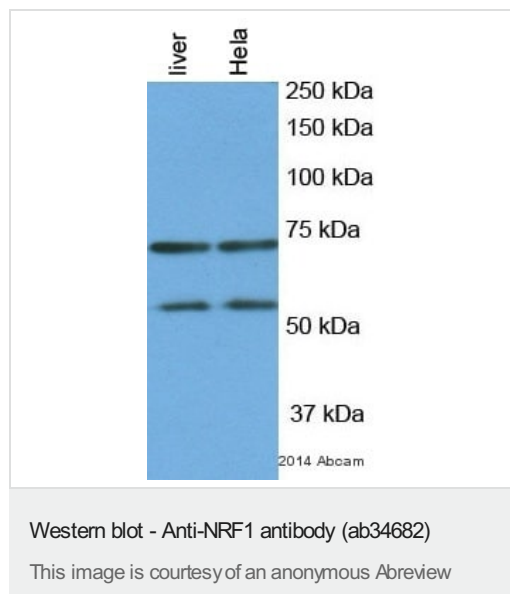
Post-translational modifications

Phosphorylation enhances DNA binding.

Cellular localization

Nucleus.

Images



All lanes : Anti-NRF1 antibody (ab34682) at 1/1000 dilution

Lane 1 : Mouse liver whole tissue lysate

Lane 2 : HeLa whole cell lysate

Lysates/proteins at 25 µg per lane.

Secondary

All lanes : HRP-conjugated goat anti-rabbit IgG polyclonal at 1/10000 dilution

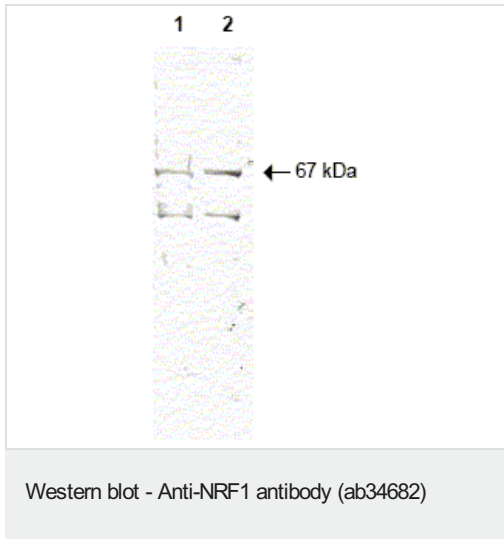
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 57 kDa

Observed band size: 55,67 kDa

Exposure time: 50 seconds



All lanes : Anti-NRF1 antibody (ab34682) at 1/500 dilution

Lane 1 : HeLa Nuclear extract

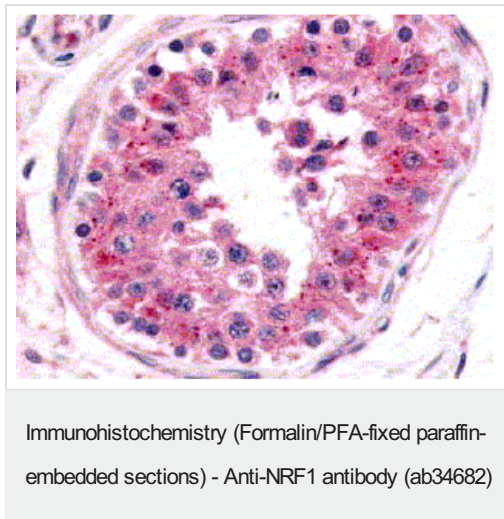
Lane 2 : HeLa Whole Cell lysate

Secondary

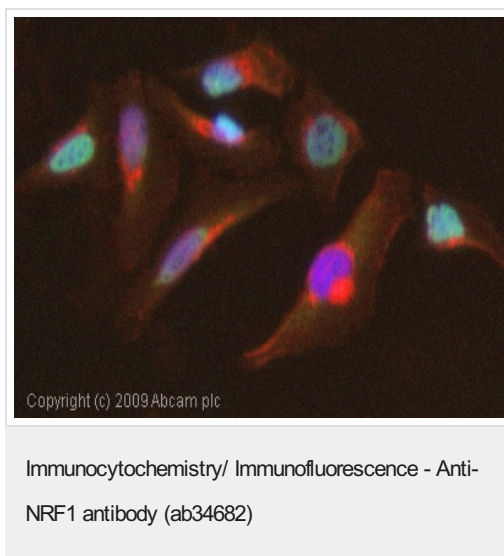
All lanes : IRDyeTM700 labelled goat-a-rabbit IgG at 1/2500 dilution

Predicted band size: 57 kDa

Observed band size: 67 kDa



Purified anti-NRF1 antibody (ab34682) was used at 5µg/ml to detect NRF1 in human testis. Nuclear staining in lymphocytes can be observed.



ICC/IF image of ab34682 stained HeLa cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab34682, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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