

Anti-Nrf2 antibody ab137550

敲除 验证

★★★★☆ 7 Abreviews 335 References 8 图像

概述

产品名称	Anti-Nrf2抗体
描述	兔多克隆抗体to Nrf2
宿主	Rabbit
经测试应用	适用于: IP, ChIP, WB, ICC/IF, IHC-P
种属反应性	与反应: Human 预测可用于: Cow 
免疫原	Recombinant fragment corresponding to Human Nrf2 aa 108-413 (internal sequence). Database link: Q16236
阳性对照	WB: MDA-MB-231 nuclear extract treated with 30 μM tBHQ for 4 hours (+). NRF2-transfected (+, including 3xFlag-tag) and HEK-293T whole cell extracts. ICC/IF: HeLa cells. IHC: Human breast carcinoma tissue. ChIP: HepG2 chromatin extract. IP: HepG2 whole cell extracts.
常规说明	<p>NRF2 is bound to ubiquitin when it is the nucleus so MW would be higher than cytoplasm.</p> <p>Please note: Nrf2 antibody (ab137550) detects no signal in most untreated samples for WB. Stimuli treated samples are recommended. Nrf2 expression is stimulated by oxidative stress, electrophiles and chemical activators (PMID: 25761198, PMID: 27638861 and PMID: 28587109). WB protocol info included in legend for MDA-MB-231 nuclear extract treated with 30 μM tBHQ for 4 hours (+). Abcam recommended secondaries - Goat Anti-Rabbit HRP (ab205718) and Goat Anti-Rabbit Alexa Fluor®488 (ab150077). Or search our wide range of secondary antibodies for use with your experiment.</p> <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>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 78% PBS, 1% BSA, 20% Glycerol (glycerin, glycerine)
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee **Abpromise™** 承诺保证使用 ab137550 于以下的经测试应用

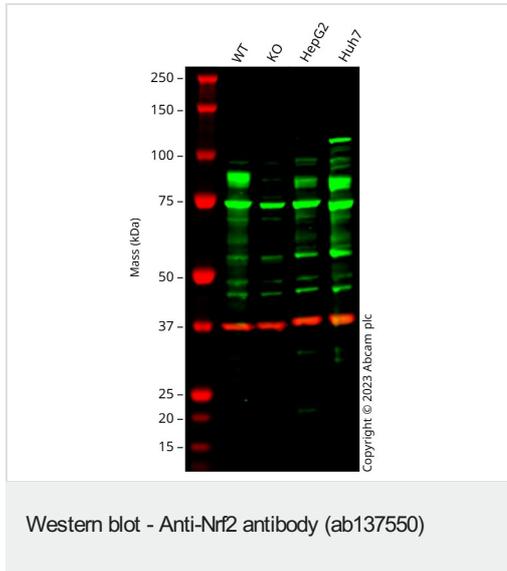
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IP		1/100 - 1/500.
ChIP		Use at an assay dependent concentration. Assay dependent
WB	★★★★★ (6)	1/500 - 1/3000. Detects a band of approximately 110 kDa (predicted molecular weight: 68 kDa). NRF2 is bound to ubiquitin when it is the nucleus so MW would be higher than cytoplasm. Stimuli treated samples are recommended. Expression levels may be better for nuclear fractions or for cell
ICC/IF		1/100 - 1/1000.
IHC-P	★★★★★ (1)	1/100 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

靶标

功能	Transcription activator that binds to antioxidant response (ARE) elements in the promoter regions of target genes. Important for the coordinated up-regulation of genes in response to oxidative stress. May be involved in the transcriptional activation of genes of the beta-globin cluster by mediating enhancer activity of hypersensitive site 2 of the beta-globin locus control region.
组织特异性	Widely expressed. Highest expression in adult muscle, kidney, lung, liver and in fetal muscle.
序列相似性	Belongs to the bZIP family. CNC subfamily. Contains 1 bZIP domain.
结构域	Acidic activation domain in the N-terminus, and DNA binding domain in the C-terminus.
翻译后修饰	Phosphorylation of Ser-40 by PKC in response to oxidative stress dissociates NFE2L2 from its cytoplasmic inhibitor KEAP1, promoting its translocation into the nucleus.
细胞定位	Cytoplasm > cytosol. Nucleus. Cytosolic under unstressed conditions, translocates into the

图片



All lanes : Anti-Nrf2 antibody (ab137550) at 1/1000 dilution

Lane 1 : Wild-type A549 cell lysate

Lane 2 : NFE2L2 knockout A549 cell lysate

Lane 3 : HepG2 cell lysate

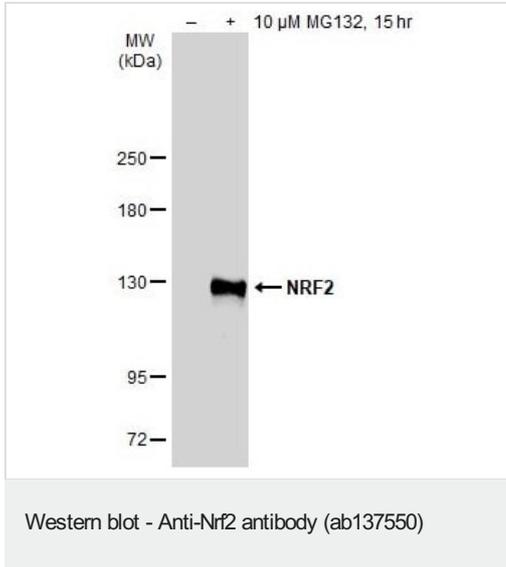
Lane 4 : Huh7 cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Observed band size: 85 kDa

Western blot: Anti-NFE2L2 antibody (ab137550) staining at 1/1000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] ([ab8245](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab137550 was shown to bind specifically to NFE2L2. A band was observed at 85 kDa in wild-type A549 cell lysates with no signal observed at this size in NFE2L2 knockout cell line [ab285359](#) (knockout cell lysate [ab289682](#)). To generate this image, wild-type and NFE2L2 knockout A549 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween[®] 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.



All lanes : Anti-Nrf2 antibody (ab137550) at 1/500 dilution

Lane 1 : Untreated HepG2 whole cell extracts

Lane 2 : Treated HepG2 whole cell extracts

Lysates/proteins at 30 μg per lane.

Secondary

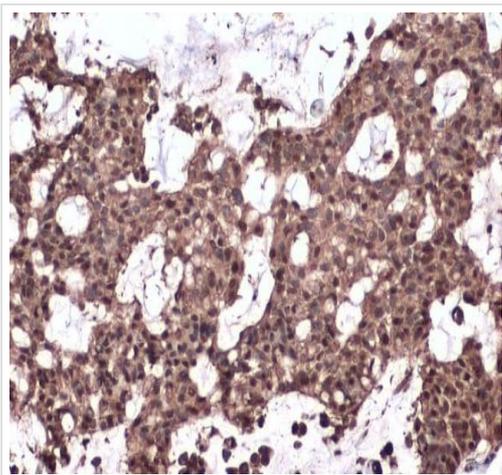
All lanes : A HRP-conjugated anti-rabbit IgG antibody

Observed band size: 110 kDa

The observed MW (110kDa) is based on PMID: 22703241

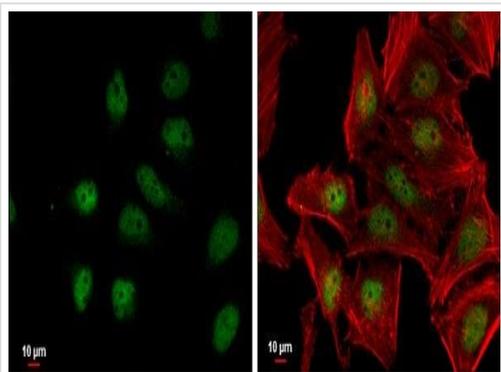
Various whole cell extracts (30 μg) were separated by 7.5% SDS-PAGE

Detection: Trident ECL plus-Enhanced.



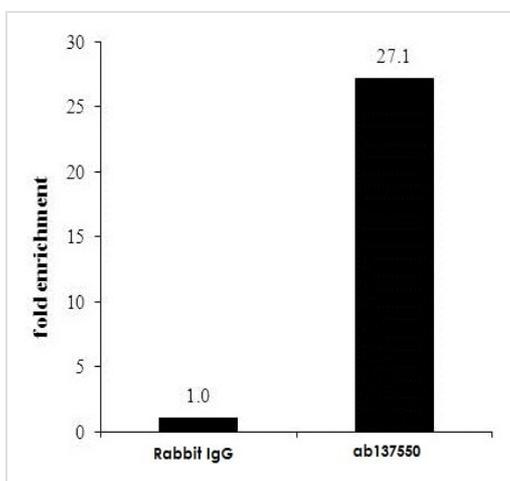
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nrf2 antibody (ab137550)

Paraffin embedded human breast carcinoma tissue stained for NRF2 using ab137550 at 1/500 dilution in immunohistochemical analysis.



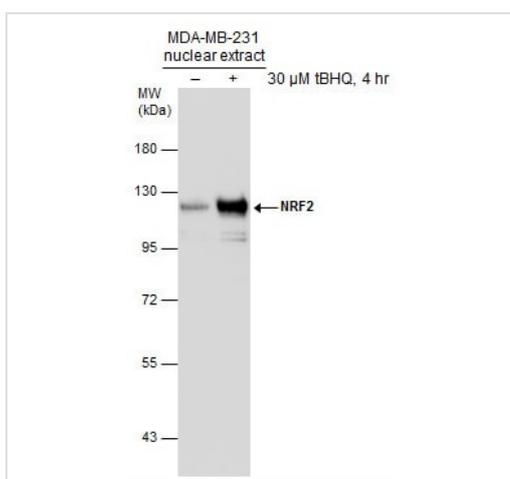
Immunocytochemistry/ Immunofluorescence - Anti-Nrf2 antibody (ab137550)

ab137550 staining Nrf2 in HeLa cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with 4% paraformaldehyde. Samples were incubated with primary antibody diluted at 1/500 (green). Phalloidin, a cytoskeleton marker, diluted at 1/100 (red) was used.



ChIP - Anti-Nrf2 antibody (ab137550)

ChIP was performed with HepG2 chromatin extract and 5 µg of either normal rabbit IgG or Anti-Nrf2 antibody (ab137550). The precipitated DNA was detected by PCR with primer set targeting to GCLC gene locus.



Western blot - Anti-Nrf2 antibody (ab137550)

All lanes : Anti-Nrf2 antibody (ab137550) at 1/1000 dilution

Lane 1 : Untreated (-) MDA-MB-231 nuclear extract

Lane 2 : MDA-MB-231 nuclear extract treated with 30 µM TBHQ for 4 hours (+)

Lysates/proteins at 30 µg per lane.

Secondary

All lanes : Rabbit IgG antibody (HRP) at 1/10000 dilution

Developed using the ECL technique.

Observed band size: 110 kDa

7.5% gel.

Running condition: 80V, 15min; 140V, 40min.

Transfer condition: Semi-dry, 18 V, 60min (Nitrocellulose membrane)

Blocking condition: 5% non-fat milk in TBST, RT, 60min.

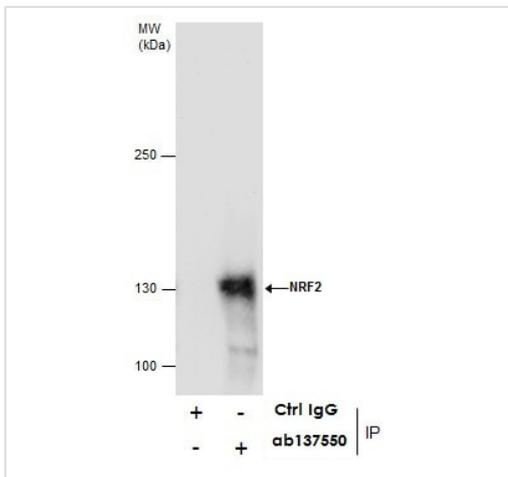
Primary antibody incubation: 4°C overnight.

Secondary antibody incubation: Room temperature for 1 hour.

Washing condition: 5 ml TBST, 4 x 5min.

ECL detection.

The observed MW (110kDa) is based on PMID: 22703241



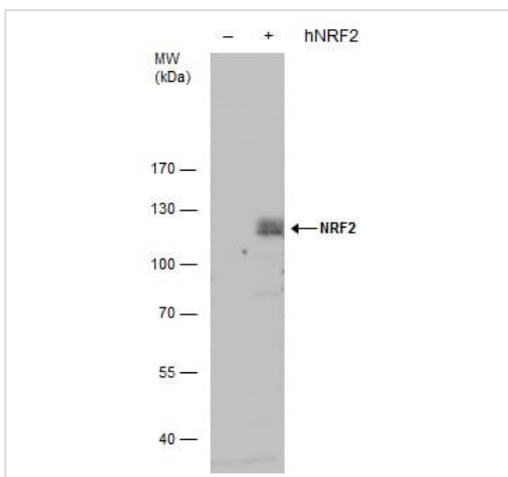
Immunoprecipitation - Anti-Nrf2 antibody (ab137550)

ab137550 at 5 µg immunoprecipitating Nrf2 in HepG2 whole cell extracts.

Lane 1 (-): Ctrl IgG instead of ab137550 in HepG2 whole cell extracts.

Lane 2 (+): ab137550 + HepG2 whole cell extracts.

For western blotting an anti-Rabbit IgG was used as a secondary reagent.



Western blot - Anti-Nrf2 antibody (ab137550)

All lanes : Anti-Nrf2 antibody (ab137550) at 1/1000 dilution

Lane 1 : Non-transfected (-) HEK-293T whole cell extracts

Lane 2 : NRF2-transfected (+, including 3xFlag-tag) HEK-293T whole cell extracts

Lysates/proteins at 30 µg per lane.

Secondary

All lanes : HRP-conjugated anti-rabbit IgG antibody

Observed band size: 110 kDa

5% SDS-PAGE

The observed MW (110kDa) is based on PMID: 22703241

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