Product Datasheet

Nrf2 Antibody
NBP1-32822

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

Reviews: 4  Publications: 63

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Updated 8/29/2023 v.20.1

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### NBP1-32822
Nrf2 Antibody

<table>
<thead>
<tr>
<th>Product Information</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Size</td>
<td>0.1 ml</td>
</tr>
<tr>
<td>Concentration</td>
<td>Varies lot to lot. See vial label for concentration. If unlisted please contact technical services.</td>
</tr>
<tr>
<td>Storage</td>
<td>Aliquot and store at -20°C or -80°C. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td>Clonality</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Preservative</td>
<td>0.025% Proclin 300</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG</td>
</tr>
<tr>
<td>Purity</td>
<td>Immunogen affinity purified</td>
</tr>
<tr>
<td>Buffer</td>
<td>PBS (pH7), 20% Glycerol</td>
</tr>
<tr>
<td>Target Molecular Weight</td>
<td>68 kDa</td>
</tr>
</tbody>
</table>

### Product Description

<table>
<thead>
<tr>
<th>Host</th>
<th>Rabbit</th>
</tr>
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<tbody>
<tr>
<td>Gene ID</td>
<td>4780</td>
</tr>
<tr>
<td>Gene Symbol</td>
<td>NFE2L2</td>
</tr>
<tr>
<td>Species</td>
<td>Human, Mouse, Rat, Alligator, Avian, Plant, Zebrafish</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Recombinant protein encompassing a sequence within the center region of human NRF2. The exact sequence is proprietary.</td>
</tr>
</tbody>
</table>

### Product Application Details

<table>
<thead>
<tr>
<th>Applications</th>
<th>Western Blot, Simple Western, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Chromatin Immunoprecipitation (ChiP), Knockdown Validated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended Dilutions</td>
<td>Western Blot 1:500-1:3000, Simple Western -Reported by internal validation, Flow Cytometry -Assay dependent, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/Immunofluorescence 1:100-1:1000, Immunoprecipitation 1:100-1:500, Immunohistochemistry-Paraffin 1:100-1:1000, Chromatin Immunoprecipitation (ChiP) -Assay dependent, Knockdown Validated</td>
</tr>
<tr>
<td>Application Notes</td>
<td>In Simple Western internal validation: Rat skin wound at 0.5 mg/ml as sample; separated by size; antibody dilution of 1:20 - 1:500; observed molecular weight was 78 kDa; detected by Chemiluminescence.</td>
</tr>
</tbody>
</table>

### Images

Hydralazine enhances NRF2 signaling in SH-SY5Y cells. c Hydralazine reduced the interaction between NRF2 and KEAP1. Interactions were measured by reciprocal Co-IPs followed by western blot analysis. *p < 0.05, two-tailed Student's t test, n = 3, mean +/- SD. Image collected and cropped by CiteAb from the following publication (http://www.nature.com/articles/s41467-017-02394-3), licensed under a CC-BY license.
NRF2 antibody [N2C2], Internal detects NRF2 protein at nucleus by immunofluorescent analysis. Sample: HeLa cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: NRF2 stained by NRF2 antibody [N2C2], Internal (NBP1-32822) diluted at 1:500. Red: phalloidin, a cytoskeleton marker, diluted at 1:100.

NRF2 antibody [N2C2], Internal detects NRF2 protein at cytoplasm and nucleus by immunohistochemical analysis. Sample: Paraffin-embedded human breast carcinoma. NRF2 stained by NRF2 antibody [N2C2], Internal (NBP1-32822) diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min

ChIP was performed with HepG2 chromatin extract and 5 ug of either normal rabbit IgG or anti-NRF2 antibody. The precipitated DNA was detected by PCR with primer set targeting to GCLC gene locus.

Whole cell extract (30 ug) was separated by 5% SDS-PAGE, and the membrane was blotted with NRF2 antibody [N2C2], Internal diluted at 1:500.
Non-transfected (-) and NRF2-transfected (+, including 3xFlag-tag) 293T whole cell extracts (30ug) were separated by 5% SDS-PAGE, and the membrane was blotted with NRF2 antibody diluted by 1:1000.

Various whole cell extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with NRF2 antibody [N2C2], Internal diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody NBP2-19301 was used to detect the primary antibody, and the signal was developed with Trident ECL plus-Enhanced.

Untreated (-) and treated (+) RAW264.7 whole cell extracts (30 ug) were separated by 5% SDS-PAGE, and the membrane was blotted with NRF2 antibody [N2C2], Internal diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody.

Various whole cell extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with NRF2 antibody [N2C2], Internal diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody, and the signal was developed with Trident ECL plus-Enhanced.
Untreated (-) and treated (+) Rat-2 whole cell extracts (30 ug) were separated by 5% SDS-PAGE, and the membrane was blotted with NRF2 antibody [N2C2], Internal (NBP1-32822) diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody.

Untreated (-) and treated (+) Neuro2A whole cell extracts (30 ug) were separated by 5% SDS-PAGE, and the membrane was blotted with NRF2 antibody [N2C2], Internal (NBP1-32822) diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody.

Untreated (-) and treated (+) HepG2 whole cell extracts (30 ug) were separated by 5% SDS-PAGE, and the membrane was blotted with NRF2 antibody [N2C2], Internal (NBP1-32822) diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody.

Various whole cell extracts (30 ug) were separated by 5% SDS-PAGE, and the membrane was blotted with NRF2 antibody [N2C2], Internal (NBP1-32822) diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody.
Untreated (-) and treated (+) MDA-MB-231 nuclear extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with NRF2 antibody [N2C2], Internal (NBP1-32822) diluted at 1:1000.

Untreated (-) and treated (+) HepG2 whole cell extracts (30 ug) were separated by 5% SDS-PAGE, and the membranes were blotted with NRF2 antibody [N2C2], Internal (NBP1-32822) diluted at 1:500 and competitor’s antibody diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody.

Hydralazine enhances NRF2 signaling in SH-SY5Y cells d NRF2 translocates to the nucleus with hydralazine treatment. Treated cells were subjected to cell fractionation and western blot analysis. *p < 0.05 and **p < 0.01, two-tailed Student's t test, n = 3, mean +/- SD. Image collected and cropped by CiteAb from the following publication (http://www.nature.com/articles/s41467-017-02394-3), licensed under a CC-BY license.

NIH/3T3 cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: NRF2 protein stained by NRF2 antibody [N2C2], Internal diluted at 1:500. Blue: Hoechst 33342 staining. Scale bar = 10 um.
Immunoprecipitation of NRF2 protein from HepG2 whole cell extracts using 5 ug of NRF2 antibody [N2C2], Internal Western blot analysis was performed using NRF2 antibody [N2C2], Internal. EasyBlot anti-Rabbit IgG was used as a secondary reagent.

Publications


El Khoury M, Biondi O, Bruneteau G et al. NADPH oxidase 4 inhibition is a complementary therapeutic strategy for spinal muscular atrophy Frontiers in cellular neuroscience 2023-09-14 [PMID: 37780204] (IHC-Fr, Mouse)

Lane SL, Parks JC, Russ JE et al. Increased Systemic Antioxidant Power Ameliorates the Aging-Related Reduction in Oocyte Competence in Mice International Journal of Molecular Sciences 2021-12-01 [PMID: 34884824] (IHC, IHC-P)


Zhang W, Xiao D, Li X et al. SIRT1 inactivation switches reactive astrocytes to an antiinflammatory phenotype in CNS autoimmunity Journal of Clinical Investigation 2022-11-15 [PMID: 36136587]

K?l?© GA, Alsafi M. -Glucan Regulates Lipopolysaccharide Induced Genotoxic Damage to The Liver through The Induction of BRCA1 Protein Expression Cell J 2023-09-09 [PMID: 37718767] (ICC/IF)

Hussein MM, Sayed RKA, Mokhtar DM. Structural and immunohistochemical analysis of the cellular compositions of the liver of molly fish (Poecilia sphenops), focusing on its immune role Zoological Letters 2023-01-05 [PMID: 36604695] (IHC, EM)


Seok JH, Kim DH, Kim HJ et al. Epigallocatechin-3-gallate suppresses hemin-aggravated colon carcinogenesis through Nrf2-inhibited mitochondrial reactive oxygen species accumulation Journal of Veterinary Science 2022-08-18 [PMID: 36174978]


Park B, Yoo Y, Kim R et al. The Effect of Olanzapine through Antioxidant and Anti-Inflammation on the Hippocampus in the Asphyxial Cardiac Arrest Rat Model Research Square 2023-07-17 (WB, Rat)

Details:
1:1000 dilution

More publications at http://www.novusbio.com/NBP1-32822
**Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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