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Anti-Phospho-Nrf2 (S40) NFE2L2 Rabbit Monoclonal Antibody

Catalog Number: P00078

Overview

Product Name	Anti-Phospho-Nrf2 (S40) NFE2L2 Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Phospho-Nrf2 (S40) NFE2L2 Rabbit Monoclonal Antibody catalog # P00078. Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IP, IF, IHC, ICC, WB
Clonality	Monoclonal IFH-14
Formulation	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q16236

Technical Details

Immunogen	A synthesized peptide derived from human Phospho-Nrf2 (S40)
Isotype	Rabbit IgG
Form	Liquid
Concentration	Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Affinity-chromatography
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: WB 1:1000-1:2000 IHC 1:50-1:200 ICC/IF 1:50-1:200 IP 1:50 FC 1:50

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Anti-Phospho-Nrf2 (S40) NFE2L2 Rabbit Monoclonal Antibody (P00078) Images

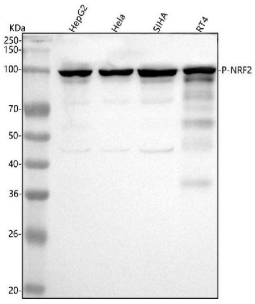

Figure 1. Western blot analysis of Nrf2 using anti-Nrf2 antibody (P00078).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human HepG2 whole cell lysates,
Lane 2: human Hela whole cell lysates,
Lane 3: human SiHa whole cell lysates,
Lane 4: human RT4 whole cell lysates.
After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Nrf2 antigen affinity purified monoclonal antibody (Catalog # P00078) at 1:1000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Nrf2 at approximately 100 kDa. The expected band size for Nrf2 is at 68 kDa.

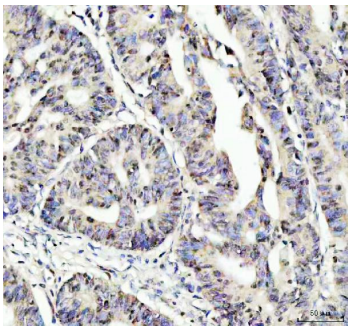

Figure 2. IHC analysis of Nrf2 using anti-Nrf2 antibody (P00078).
Nrf2 was detected in a paraffin-embedded section of human colorectal adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-Nrf2 Antibody (P00078) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

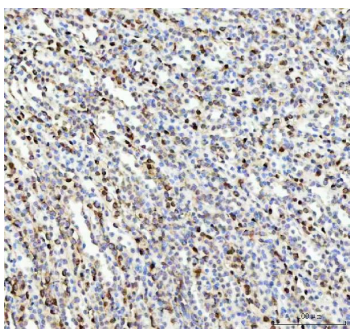

Figure 3. IHC analysis of Nrf2 using anti-Nrf2 antibody (P00078).
Nrf2 was detected in a paraffin-embedded section of mouse kidney tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-Nrf2 Antibody (P00078) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

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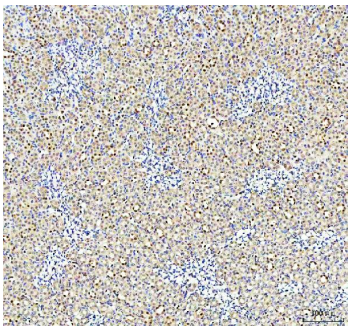
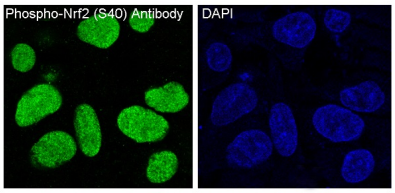
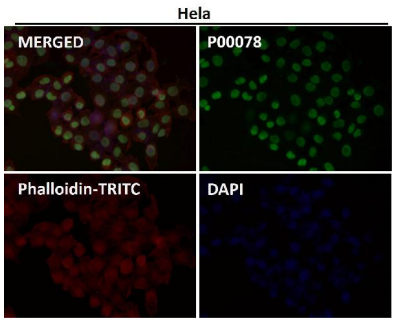


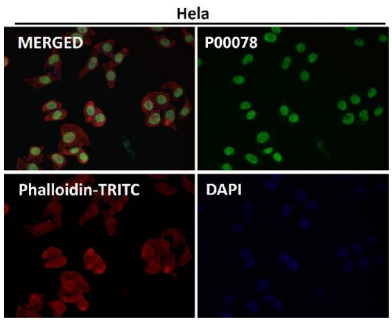
Figure 4. IHC analysis of Nrf2 using anti-Nrf2 antibody (P00078).
Nrf2 was detected in a paraffin-embedded section of rat kidney tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-Nrf2 Antibody (P00078) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



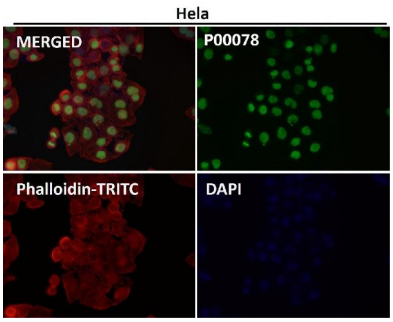
Immunofluorescent analysis of HepG2 cells, using Phospho-Nrf2 (S40) Antibody.



Immunofluorescent analysis using the Antibody at 1:50 dilution.



Immunofluorescent analysis using the Antibody at 1:150 dilution.



Immunofluorescent analysis using the Antibody at 1:500 dilution.

5 Publications Citing This Product

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1. PubMed ID: 10.1111/jphp.13343, Modulation of non‐steroidal anti‐inflammatory drug‐induced, ER stress‐mediated apoptosis in Caco‐2 cells by different polyphenolic antioxidants: a mechanistic study

2. PubMed ID: 32030632, Li X,Zuo C,Sun D,Zhao T,Zhang Z.Arsenite Increases Linc-ROR in Human Bronchial Epithelial Cells that Can Be Inhibited by Antioxidant Factors.Biol Trace Elem Res.2020 Nov;198(1):131-141.doi:10.1007/s12011-020-02065-3.Epub 2020 Feb 6.PMID:32030632.

3. PubMed ID: 27774770, Protection of Nrf2 against arsenite-induced oxidative damage is regulated by the cyclic guanosine monophosphate-protein kinase G signaling pathway

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