

bsm-52179R**[Primary Antibody]**
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phospho-Nrf2 (Ser40) Recombinant Rabbit mAb

DATASHEET

Host: Rabbit**Isotype:** IgG**Clonality:** Recombinant**CloneNo.:** 7G4**GeneID:** 4780**SWISS:** Q16236**Target:** Nrf2 (Ser40)**Immunogen:** A synthesized peptide derived from human Nrf2 around the phosphorylation site of S40: DF-pS-QR.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

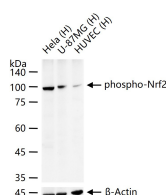
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Nuclear factor erythroid 2-related factor 2 (Nrf2) is a transcription factor which regulates the expression of many detoxification and antioxidant enzymes. Nrf2 can potentially play a significant role in adaptive responses to oxidative stress. Nrf2 belongs to the Cap N Collar (CNC-bZIP) subfamily of basic /leucine zipper (bZIP) transcription factors.

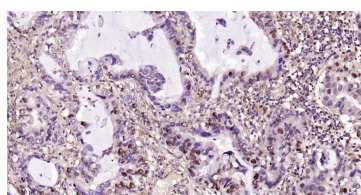
Applications: **WB** (1:1000-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1µg/Test)
ICC/IF (1:50-200)

Reactivity: Human**Predicted MW.:** 68 kDa**Observed MW.:** 100 kDa**Subcellular Location:** Cytoplasm ,Nucleus

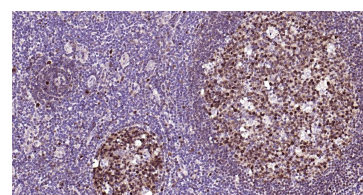
VALIDATION IMAGES



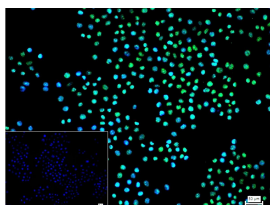
25 µg total protein per lane of various lysates (see on figure) probed with phospho-Nrf2 (Ser40) monoclonal antibody, unconjugated (bsm-52179R) at 1:2000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



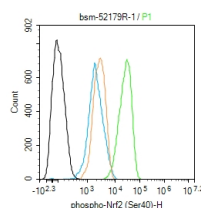
Paraformaldehyde-fixed, paraffin embedded Human Lung Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with phospho-Nrf2 (Ser40) Monoclonal Antibody, Unconjugated (bsm-52179R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Tonsil; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with phospho-Nrf2 (Ser40) Monoclonal Antibody, Unconjugated (bsm-52179R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



HeLa cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (phospho-Nrf2 (Ser40)) monoclonal Antibody, Unconjugated (bsm-52179R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



Blank control: HeLa. Primary Antibody (green line): Rabbit Anti-phospho-Nrf2 (Ser40) antibody (bsm-52179R) Dilution: 1µg/Test; Secondary Antibody : Goat anti-rabbit IgG-BF488 Dilution: 0.5µg/Test. Protocol The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

at room temperature. The secondary antibody
used for 40 min at room temperature.
Acquisition of 20,000 events was performed.

— SELECTED CITATIONS —

- **[IF=4.2]** Xuerui Zhang. et al. Sestrin2 Exerts a Novel Protective Effect Against LPS - Induced Ferroptosis via the Nrf2–SLC7A11–GPX4 Signaling Axis. FASEB J. 2025 Nov;39(22):e71251 WB ;Mouse. 41294929
- **[IF=3.9]** Faleti Oluwasijibomi Damola. et al. Dimethyl fumarate abrogates hepatocellular carcinoma growth by inhibiting Nrf2/Bcl-xL axis and enhances sorafenib' s efficacy. SCI REP-UK. 2025 May;15(1):1-15 WB ;Human. 40369009
- **[IF=3.881]** Zubeyir Elmazoglu. et al. Cannabinoid-profiled agents improve cell survival via reduction of oxidative stress and inflammation, and Nrf2 activation in a toxic model combining hyperglycemia+Aβ1-42 peptide in rat hippocampal neurons. Neurochem Int. 2020 Nov;140:104817 WB ;Rat. 32781098
- **[IF=1]** Hiroki Miyano. et al. Inhibition of renal fibrosis via Nrf2 activators for unilateral ureteral obstruction in a rat model. PEDIATR INT. 2025 Apr;67(1):e70000 IHC ;Rat. 40244713
- **[IF=0]** Fira Soraya. et al. 8-OHdG and Nrf2 Protein are Expressed Consistently in Various T Stages of Invasive Breast Carcinoma. ASIAN PAC J CANCER P. 2025 Jan 1;26(1):301-307 IHC ;Human. 39874013