

bs-1342R

[Primary Antibody]

NRF1 Rabbit pAb

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DATASHEET

Host: Rabbit

Isotype: IgG

Clonality: Polyclonal

GeneID: 4899

SWISS: Q16656

Target: NRF1

Immunogen: KLH conjugated synthetic peptide derived from human NRF1: 51-180/503.

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: This gene encodes a protein that homodimerizes and functions as a transcription factor which activates the expression of some key metabolic genes regulating cellular growth and nuclear genes required for respiration, heme biosynthesis, and mitochondrial DNA transcription and replication. The protein has also been associated with the regulation of neurite outgrowth. Alternative splicing results in multiple transcript variants. Confusion has occurred in bibliographic databases due to the shared symbol of NRF1 for this gene and for "nuclear factor (erythroid-derived 2)-like 1" which has an official symbol of NFE2L1. [provided by RefSeq, May 2014]

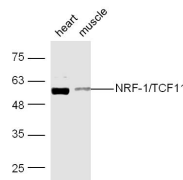
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1ug/Test)
ICC/IF (1:100)

Reactivity: Human, Mouse, Rat

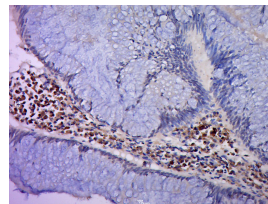
Predicted MW.: 55 kDa

Subcellular Location: Cytoplasm

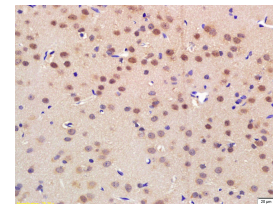
VALIDATION IMAGES



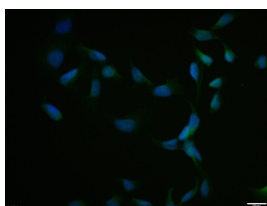
Sample: Lane1:Heart (Mouse) Lysate at 30 ug
Lane2:Muscle (Mouse) Lysate at 30 ug
Primary: Anti- NRF-1/TCF11 (bs-1342R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 55 kD
Observed band size: 55 kD



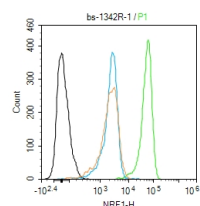
Paraformaldehyde-fixed, paraffin embedded (Human colon cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (NRF1) Polyclonal Antibody, Unconjugated (bs-1342R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-NRF-1 Polyclonal Antibody, Unconjugated(bs-1342R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) 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



Blank control:Jurkat. Primary Antibody (green line): Rabbit Anti-Iba1 antibody (bs-1342R)
Dilution: 1ug/Test; Secondary Antibody : Goat

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

min; Antibody incubation with (NRF1) polyclonal Antibody, Unconjugated (bs-1342R) 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.

anti-rabbit IgG-FITC Dilution: 0.5ug/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 at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

— SELECTED CITATIONS —

- **[IF=6.117]** Yue Shen. et al. Lycopene prevents Di-(2-ethylhexyl) phthalate-induced mitophagy and oxidative stress in mice heart via modulating mitochondrial homeostasis. J NUTR BIOCHEM. 2023 May;115:109285 WB ;Mouse. 36796548
- **[IF=3.76]** Qin, Guohua, et al. "Sulfur dioxide inhalation stimulated mitochondrial biogenesis in rat brains." Toxicology 300.1 (2012): 67-74. WB ;="Rat". 22677886
- **[IF=3.95]** Yan, Wei, et al. "Acute nitrogen dioxide inhalation induces mitochondrial dysfunction in rat brain." Environmental Research 138 (2015): 416-424. WB ;="Rat". 25791864
- **[IF=3.974]** Ning X et al.Ambient PM2. 5 causes lung injuries and coupled energy metabolic disorder. (2018) Ecotoxicol. Environ. Saf. 170 WB ;Mouse. 30579162
- **[IF=2.9]** Qi He. et al.Long-term consumption of hydrogen-rich water provides hepatoprotection by improving mitochondrial biology and quality control in chronically stressed mice.plos one.2025 Feb 14;20(2):e0317080. Western Blot ;Mouse. 39951412