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Rabbit Anti-Nrf2 antibody

SL1074R

Product Name:	Nrf2
Chinese Name:	核因子2相关因子2抗体
Alias:	Nuclear factor-E2 related factor2; Nrf-2; HEBP1; NF E2 related factor 2; NFE2 related factor 2; NFE2L2; Nrf 2; Nuclear factor erythroid 2 related factor 2; Nuclear factor erythroid derived 2 like 2; NF2L2_HUMAN.
文献引用 PubMed :	**Specific References(25)**|SL1074R has been referenced in 25 publications. **[IF=5.27]**Lee, Bao-Hong, et al. "Dimerumic acid attenuates receptor for advanced glycation endproduct (RAGE) signal to inhibit inflammation and diabetes mediated by Nrf2 activation and promoted methylglyoxal metabolism into D-lactate acid" Free Radical Biology and Medicine**WB;Human**. PubMed:23434766 **[IF=5.27]**Lee, Bao-Hong, et al. "Ankaflavin: A natural novel PPAR?? agonist up-regulated Nrf2 to attenuate methylglyoxal (MG)-induced diabetes< i> in vivo."Free Radical Biology and Medicine (2012).y**WB;Rat**. PubMed:23022408 **[IF=3.01]**Bao-Hong, L. et al. "Graptopetalum paraguayense and resveratrol ameliorates 3 carboxymethyllysine (CML)-induced pancreas dysfunction and 4 hyperglycemia." Food and Chemical Toxicology. (2013).**WB;Mouse**. PubMed:24036142 **[IF=3.01]**Lee, Bao-Hong, et al. "Suppression of dimerumic acid on hepatic fibrosis caused from carboxymethyl-lysine (CML) by attenuating oxidative stress depends on Nrf2 activation in hepatic stellate cells (HSCs)." Food and Chemical Toxicology (201**WB;Mouse**.

PubMed:24036144

[IF=3.01]Lee, Bao-Hong, et al. "< i> Graptopetalum paraguayense and resveratrol ameliorates carboxymethyllysine (CML)-induced pancreas dysfunction and hyperglycemia." Food and Chemical Toxicology 62 (2013): 492-498.**WB;Mouse**.

PubMed:24036142

[IF=3.01]Lee, Bao-Hong, et al. "Suppression of dimerumic acid on hepatic fibrosis caused from carboxymethyl-lysine (CML) by attenuating oxidative stress depends on Nrf2 activation in hepatic stellate cells (HSCs)." Food and Chemical Toxicology 62 (2013): 413-419.**WB;Mouse**.

PubMed:24036144

[IF=2.91]Hsu, Wei-Hsuan, et al. "Monascin and AITC attenuate methylglyoxal-induced PPARγ phosphorylation and degradation through inhibition of the oxidative stress/PKC pathway depending on Nrf2 activation." Journal of agricultural and food chemistry (2013).**WB;Rat**.

PubMed:23731245

[IF=2.91]Lee, Bao-Hong, et al. "Effects of monascin on anti-inflammation mediated by Nrf2 activation in advanced glycation endproducts-treated THP-1 monocytes and methylglyoxal-treated Wistar rats." Journal of Agricultural and Food Chemistry (2013).

PubMed:23331247

[IF=2.74]Cheng, An-Sheng, Yu-Hsiang Cheng, and Tsu-Liang Chang. "Resveratrol protects RINm5F pancreatic cells from methylglyoxal-induced apoptosis." Journal of Functional Foods (2013).**WB;Rat**.

PubMed:not posted yet

[IF=2.00]Wang, Yan, et al. "The Chronic Effects of Low Lead Level on The Expressions of Nrf2 and Mrp1 of The Testes in The Rats." Environmental Toxicology and Pharmacology (2012).**IHC-P;Rat**.

PubMed:23274417

[IF=1.21]Lee, Chia-Chen, Bao-Hong Lee, and She-Ching Wu. "Actinidia callosa peel (kiwi fruit) ethanol extracts protected neural cells apoptosis induced by methylglyoxal through Nrf2 activation." Pharmaceutical Biology 0 (2014): 1-9.**other;**

PubMed:24707974

[IF=3.38]Cui, Y., et al. "Role of Nuclear Factor Erythroid 2-Like 2 in the Induction of

Cytochrome P450 2a5 in Vivo of Nonalcoholic Fatty Liver Disease." Journal of Diabetes & Metabolism 6.488 (2015): 2.**WB;Mouse**.

PubMed:not posted yet

[IF=3.83]Wang, Peng, et al. "Geraniin exerts cytoprotective effect against cellular oxidative stress by upregulation of Nrf2-mediated antioxidant enzymes expression via PI3K/AKT and ERK1/2 pathway." Biochimica et Biophysica Acta (BBA)-General Subjects (2015).**WB;Human**.

PubMed:25917210

[IF=1.72]Yu, Haijie, et al. "Triptolide Attenuates Myocardial Ischemia/Reperfusion Injuries in Rats by Inducing the Activation of Nrf2/HO-1 Defense Pathway."Cardiovascular Toxicology (2015): 1-11.**WB;Rat**.

PubMed:26391895

[IF=2.70]Lv, Runxiao, et al. "Neuroprotective effect of allicin in a rat model of acute spinal cord injury." Life Sciences (2015).**WB;Rat**.

PubMed:26546416

[IF=2.62]Jiang, Wu, et al. "Protective Effects of Asiatic Acid Against Spinal Cord Injury-Induced Acute Lung Injury in Rats." Inflammation: (2016) 1-9.**WB;Rat**.

PubMed:27605220

[IF=1.07]Liu, Cui-Zhen, et al. "HBSP attenuates lipopolysaccharide-induced inflammatory response in human renal proximal tubular epithelial cells by induction of Nrf2 via PI3K/Akt pathway." Int J Clin Exp Med 10.1 (2017): 587-597.**WB;Human**.

PubMed:0

[IF=0.87]Zeng, X-P., et al. "Tert-Butylhydroquinone Protects Liver Against Ischemia/Reperfusion Injury in Rats Through Nrf2-Activating Anti-Oxidative Activity." Transplantation Proceedings. Vol. 49. , 2017.**WB;Rat**.

PubMed:28219600

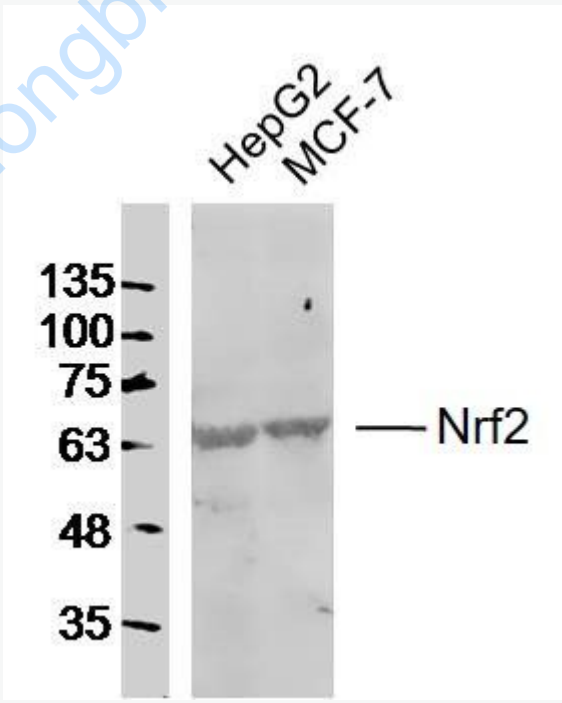
[IF=2.19]Zhang, Jin-ming, et al. "Nrf2 Is Crucial For The Down-Regulation Of Cyp7a1 Induced By Arachidonic Acid In Hepg2 Cells." Environmental Toxicology and Pharmacology (2017).**WB;Human**.

PubMed:28364638

[IF=2.55]Yu, Dan, et al. "In vitro the differences of inflammatory and oxidative reactions due to sulfur mustard induced acute pulmonary injury underlying

	intraperitoneal injection and intratracheal instillation in rats." International Immunopharmacology 47 (2017): 78-87.**IHC-P;Rat**. PubMed:28365508 **[IF=2.55]**Shen, Haitao, et al. "Chloroquine attenuates paraquat-induced lung injury in mice by altering inflammation, oxidative stress and fibrosis." International Immunopharmacology 46 (2017): 16-22.**WB;Mouse**. PubMed:28249220 **[IF=3.97]**Zhao, Lei, et al. "Protective effects of Lactobacillus plantarum C88 on chronic ethanol-induced liver injury in mice." Journal of Functional Foods 35 (2017): 97-104.**WB;Rat**. PubMed:0 **[IF=0.23]**Tao, Kai, Jinghai Chen, and Lingyun Wang. "Effects of berberine on the expressions of NRF2 and HO-1 in endothelial cells of diabetic rat." Biomedical Research 28.9 (2017): 3860-3864.**WB, IHC-P;Rat**. PubMed:0 **[IF=1.56]**Zhang, Bing, et al. "Nrf2 mediates the protective effects of homocysteine by increasing the levels of GSH content in HepG2 cells." Molecular Medicine Reports.**WB;Human**. PubMed:28560453 **[IF=4.08]**Cao, Zhen, et al. "Cyanidin Suppresses Autophagic Activity Regulating Chondrocyte Hypertrophic Differentiation." Journal of Cellular Physiology(2017).**WB;Mouse**. PubMed:28722162
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Cow,Horse,Rabbit,
Applications:	WB=1:100-1000ELISA=1:1000-5000IHC-P=1:100-1000IHC-F=1:100-1000IF=1:100-1000（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	68kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Nrf2:401-500/605
Lsotype:	IgG

Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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. **Function:** 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. **Subunit:** Heterodimer. May bind DNA with an unknown protein. Interacts with KEAP1. Interacts via its leucine-zipper domain with the coiled-coil domain of PMF1. **Subcellular Location:** Cytoplasm, cytosol. Nucleus. Note=Cytosolic under unstressed conditions, translocates into the nucleus upon induction by electrophilic agents. **Tissue Specificity:** Widely expressed. Highest expression in adult muscle, kidney, lung, liver and in fetal muscle. **Post-translational modifications:** Phosphorylation of Ser-40 by PKC in response to oxidative stress dissociates NFE2L2 from its cytoplasmic inhibitor KEAP1, promoting its translocation into the nucleus. **Similarity:** Belongs to the bZIP family. CNC subfamily. Contains 1 bZIP domain. **SWISS:** Q16236 **Gene ID:** 4780

	Database links: Entrez Gene: 4780Human Omim: 600492Human SwissProt: Q16236Human **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. transcriptional regulatory factor（Transcriptin Regulators） 核细胞系因子2相关因子Nrf2，是一种对氧化还原反应敏感的转录因子，可以通过正向促进基因的表达，来转录翻译产生一些抗氧化物，行使着异化解毒的酶类和药物的高效外排泵作用。 有学者认为：核因子2相关因子2蛋白在保护细胞免受环境毒性物质影响方面发挥着极其重要的作用，它指导某些基因促进细胞的防御工事，同时也刺激某些重要解毒酶对毒性物质，如黄曲霉素的解毒和排毒作用。
Picture:	 Sample: HepG2(Human) Cell Lysate at 40 ug

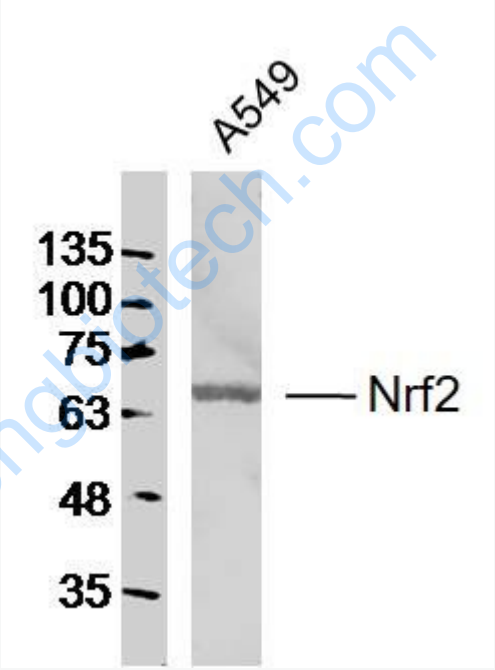
MCF-7(Human) Cell Lysate at 40 ug

Primary: Anti-Nrf2(SL1074R)at 1/300 dilution

Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution

Predicted band size: 68kD

Observed band size: 68kD



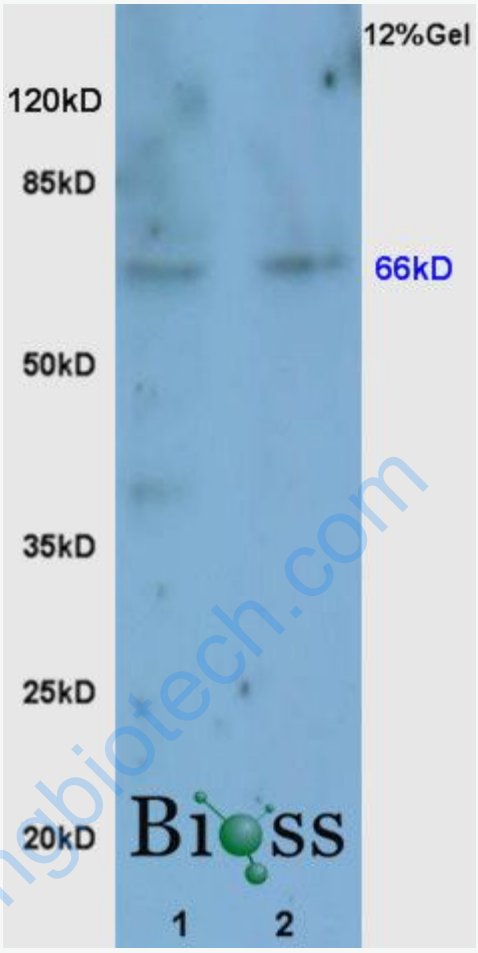
Sample:A549 (Human)Cell Lysate at 40 ug

Primary: Anti-Nrf2(SL1074R)at 1/300 dilution

Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution

Predicted band size: 68kD

Observed band size: 68kD



Sample:

Brain(Rat) lysate at 30ug;

Brain(Mouse) lysate at 30ug;

Primary: Anti-Nrf2 (SL1074R) at 1:200 dilution

Secondary: HRP conjugated Goat-Anti-Rabbit IgG(bse-0295G) at 1: 3000 dilution

Predicted band size : 66kD

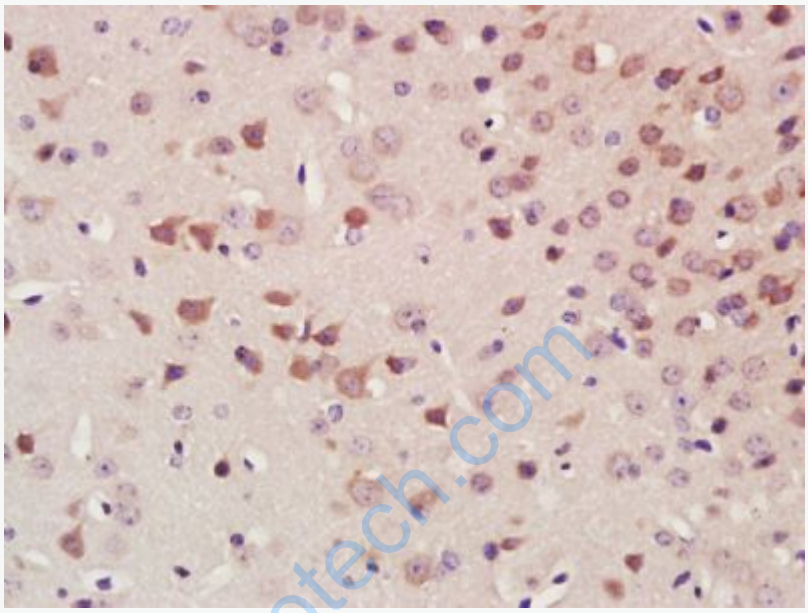
Observed band size : 66kD

Primary: Anti-Nrf2 (SL1074R) at 1:200

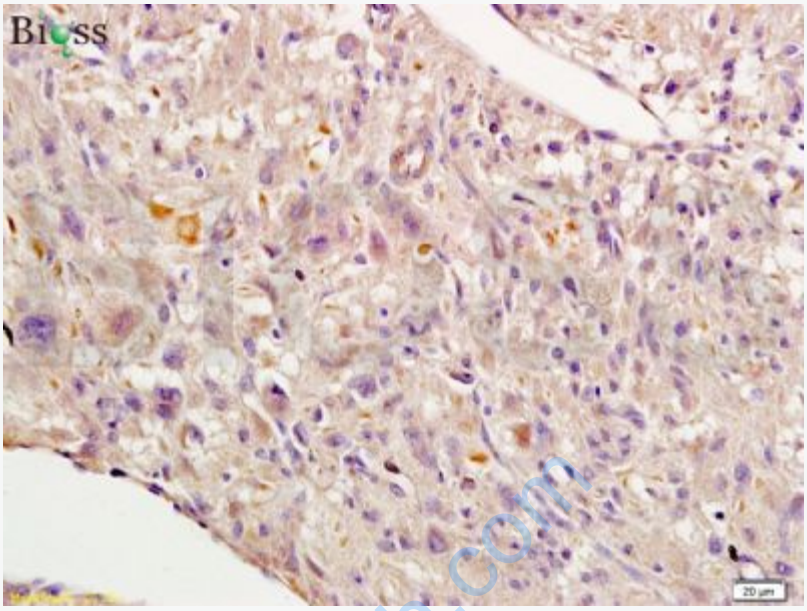
Secondary: HRP conjugated Goat-Anti-Rabbit IgG(bse-0295G) at 1: 3000

Predicted band size : 66kD

Observed band size : 66kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); 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 (Nrf2) Polyclonal Antibody, Unconjugated (SL1074R) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody (sp-0023) for 20 minutes and DAB staining.



Tissue/cell: human endometrium carcinoma; 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℃ for 20 min;

Incubation: Anti-Nrf2 Polyclonal Antibody, Unconjugated(SL1074R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining