

ARG65647 anti-Nrf 2 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes Nrf 2
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat, Cow, Dog, Pig
Tested Application	WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	Nrf 2
Species	Human
Immunogen	Synthetic peptide around the center region of Human Nrf2 (C-KHSSRLEAHLTRDE)
Conjugation	Un-conjugated
Alternate Names	Nuclear factor, erythroid derived 2, like 2; NF-E2-related factor 2; Nuclear factor erythroid 2-related factor 2; HEBP1; NRF2; NFE2-related factor 2

Application Instructions

Application table	Application	Dilution
	WB	0.3 - 1 µg/ml

Application Note
WB: Recommend incubate at RT for 1h.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

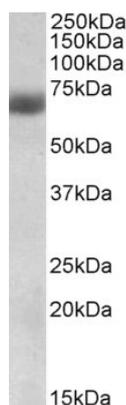
Properties

Form	Liquid
Purification	Affinity purified
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 4780 Human Swiss-port # Q16236 Human
Gene Symbol	NFE2L2
Gene Full Name	nuclear factor, erythroid 2-like 2
Background	This gene encodes a transcription factor which is a member of a small family of basic leucine zipper (bZIP) proteins. The encoded transcription factor regulates genes which contain antioxidant response elements (ARE) in their promoters; many of these genes encode proteins involved in response to injury and inflammation which includes the production of free radicals. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]
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. [UniProt]
Highlight	Related products: Nrf 2 antibodies; Nrf 2 Duos / Panels; Anti-Goat IgG secondary antibodies; Related news: Keap1-Nrf2-ARE antibody panel is launched
Research Area	Cell Biology and Cellular Response antibody; Gene Regulation antibody; Metabolism antibody; NRF-2 Nuclear Localization antibody
Calculated Mw	68 kDa
PTM	Phosphorylation of Ser-40 by PKC in response to oxidative stress dissociates NFE2L2 from its cytoplasmic inhibitor KEAP1, promoting its translocation into the nucleus. Acetylation at Lys-596 and Lys-599 increases nuclear localization whereas deacetylation by SIRT1 enhances cytoplasmic presence. Ubiquitinated by the KEAP1-CUL3-RBX1 E3 ubiquitin ligase complex and subject to proteasomal degradation. Ubiquitination is inhibited by sulforaphane.

Images



ARG65647 anti-Nrf 2 antibody WB image

Western blot: 35 µg of Human Lung lysate stained with ARG65647 anti-Nrf 2 antibody at 0.3 µg/ml dilution (1h incubation).