

ARG58946 anti-KEAP1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes KEAP1
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-Fr, WB
Specificity	At least two isoforms of KEAP1 are known to exist.
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	KEAP1
Species	Human
Immunogen	A 19 amino acid synthetic peptide (within the last 50 aa) of Human KEAP1.
Conjugation	Un-conjugated
Alternate Names	KLHL19; Cytosolic inhibitor of Nrf2; INrf2; Kelch-like protein 19; Kelch-like ECH-associated protein 1

Application Instructions

Application table	Application	Dilution
	ICC/IF	20 µg/ml
	IHC-Fr	20 µg/ml
	WB	1 - 2 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	WB: Human lung.	

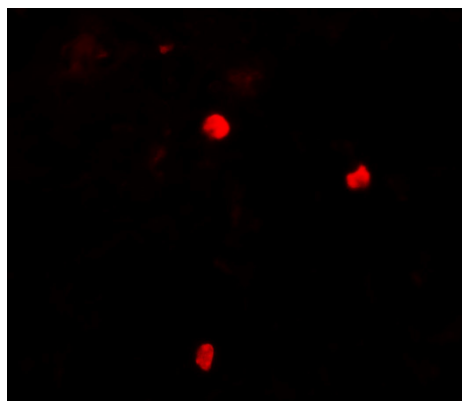
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS and 0.02% Sodium azide.
Preservative	0.02% Sodium azide
Concentration	1 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.

Bioinformation

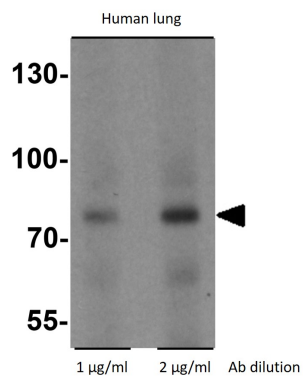
Gene Symbol	KEAP1
Gene Full Name	kelch-like ECH-associated protein 1
Background	This gene encodes a protein containing KELCH-1 like domains, as well as a BTB/POZ domain. Kelch-like ECH-associated protein 1 interacts with NF-E2-related factor 2 in a redox-sensitive manner and the dissociation of the proteins in the cytoplasm is followed by transportation of NF-E2-related factor 2 to the nucleus. This interaction results in the expression of the catalytic subunit of gamma-glutamylcysteine synthetase. Two alternatively spliced transcript variants encoding the same isoform have been found for this gene. [provided by RefSeq, Jul 2008]
Function	Acts as a substrate adapter protein for the E3 ubiquitin ligase complex formed by CUL3 and RBX1 and targets NFE2L2/NRF2 for ubiquitination and degradation by the proteasome, thus resulting in the suppression of its transcriptional activity and the repression of antioxidant response element-mediated detoxifying enzyme gene expression. Retains NFE2L2/NRF2 and may also retain BPTF in the cytosol. Targets PGAM5 for ubiquitination and degradation by the proteasome. [UniProt]
Highlight	Related products: KEAP1 antibodies ; KEAP1 Duos / Panels ; Anti-Rabbit IgG secondary antibodies ; Related news: Keap1-Nrf2-ARE antibody panel is launched
Calculated Mw	70 kDa
PTM	Ubiquitinated by the E3 ubiquitin ligase complex formed by CUL3 and RBX1 and is subject to proteasomal-independent degradation. Quinone-induced oxidative stress, but not sulforaphane, increases its ubiquitination. Ubiquitination and subsequent degradation is most pronounced following prolonged exposure of cells to oxidative stress, particularly in glutathione-deficient cells that are highly susceptible to oxidative stress. [UniProt]
Cellular Localization	Cytoplasm. Nucleus. Note=Shuttles between cytoplasm and nucleus. [UniProt]

Images



ARG58946 anti-KEAP1 antibody IHC image

Immunohistochemistry: Human lung tissue stained with ARG58946 anti-KEAP1 antibody at 20 µg/ml dilution.



ARG58946 anti-KEAP1 antibody WB image

Western blot: Human lung tissue lysate stained with ARG58946 anti-KEAP1 antibody at 1 or 2 µg/ml dilution.