

ARG66711 anti-KEAP1 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes KEAP1
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	KEAP1
Species	Human
Immunogen	Synthetic peptide within aa. 411-460 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
	IHC-P	1:100 - 1:300
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	K562	
Observed Size	~ 70 kDa	

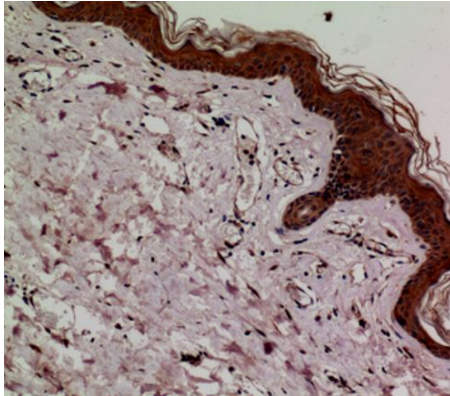
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS, 0.02% Sodium azide, 50% Glycerol and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol and 0.5% BSA
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. 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

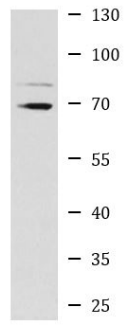
Gene Symbol	KEAP1
Gene Full Name	kelch-like ECH-associated protein 1
Background	This gene encodes a protein containing KELCH-1 like domains, as well as a BTB/POZ domain. Kelch-like ECH-associated protein 1 interacts with NF-E2-related factor 2 in a redox-sensitive manner and the dissociation of the proteins 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



ARG66711 anti-KEAP1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human skin tissue stained with ARG66711 anti-KEAP1 antibody at 1:100 dilution.



K562

ARG66711 anti-KEAP1 antibody WB image

Western blot: K562 cell lysate stained with ARG66711 anti-KEAP1 antibody at 1:1000 dilution.