

## ARG42022 anti-KEAP1 antibody

Package: 50 µg  
Store at: -20°C

### Summary

|                     |  |
|---------------------|--|
| Product Description | Goat Polyclonal antibody recognizes KEAP1  |
| Tested Reactivity   | Hu, Ms   |
| Predict Reactivity  | Cow, Rat, Dog, Pig   |
| Tested Application  | ICC/IF, IHC-P, WB  |
| Host                | Goat   |
| Clonality           | Polyclonal   |
| Isotype             | IgG  |
| Target Name         | KEAP1  |
| Species             | Human  |
| Immunogen           | Synthetic peptide around the internal region of Human KEAP1. (NP_036421.2) (C-EVTPSQHGNRTFS)           |
| 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   | 5 µg/ml         |
|                   | IHC-P  | 3 - 5 µg/ml     |
|                   | WB   | 0.2 - 0.6 µg/ml |
| Application Note  | IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0).<br>WB: Recommend incubate at RT for 1h.<br>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |                 |
| Positive Control  | NIH/3T3  |                 |
| Observed Size     | ~ 75 kDa   |                 |

### Properties

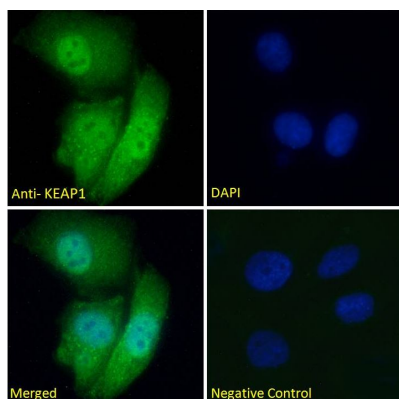
|              |   |
|--------------|---|
| Form         | Liquid  |
| Purification | Ammonium sulphate precipitation followed by affinity purification with immunogen. |
| Buffer       | Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.                            |
| Preservative | 0.02% Sodium 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

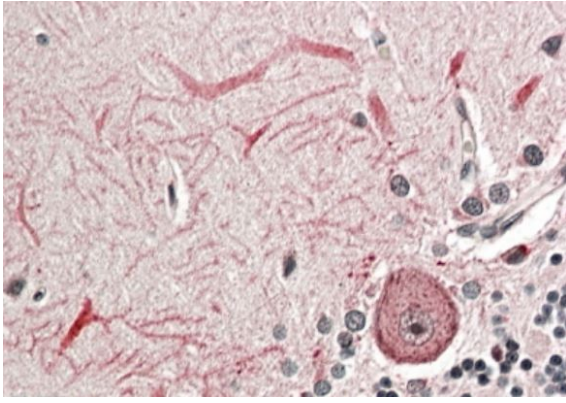
|                       |   |
|-----------------------|---|
| Gene Symbol           | KEAP1   |
| Gene Full Name        | kelch-like ECH-associated protein 1   |
| Background            | This gene encodes a protein containing KELCH-1 like domains, as well as a BTB/POZ domain. Kelch-like ECH-associated 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:<br><a href="#">KEAP1 antibodies</a> ; <a href="#">KEAP1 Duos / Panels</a> ; <a href="#">Anti-Goat IgG secondary antibodies</a> ;<br>Related news:<br><a href="#">Keap1-Nrf2-ARE antibody panel is launched</a>  |
| 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



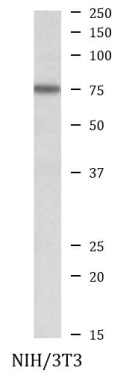
ARG42022 anti-KEAP1 antibody ICC/IF image

Immunofluorescence: HeLa cells fixed with Paraformaldehyde and permeabilized with 0.15% Triton. Cells were stained with ARG42022 anti-KEAP1 antibody (green) at 5 µg/ml dilution for 1 hour. DAPI (blue) for nuclear staining. Negative control: Unimmunized Goat IgG at 5 µg/ml dilution.



#### ARG42022 anti-KEAP1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human cerebellum tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG42022 anti-KEAP1 antibody at 3.8  $\mu\text{g}/\text{ml}$  dilution.



#### ARG42022 anti-KEAP1 antibody WB image

Western blot: 35  $\mu\text{g}$  of NIH/3T3 cell lysate (in RIPA buffer) stained with ARG42022 anti-KEAP1 antibody at 0.2  $\mu\text{g}/\text{ml}$  dilution and incubated at RT for 1 hour.