

**KEAP1 antibody - C-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI10715****Specification**

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**KEAP1 antibody - C-terminal region - Product Information**

|                   |                                                          |
|-------------------|----------------------------------------------------------|
| Application       | WB, IHC                                                  |
| Primary Accession | <a href="#">Q14145</a>                                   |
| Other Accession   | <a href="#">NM_203500</a> , <a href="#">NP_987096</a>    |
| Reactivity        | Human, Mouse, Rat, Rabbit, Zebrafish, Horse, Bovine, Dog |
| Predicted         | Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Bovine        |
| Host              | Rabbit                                                   |
| Clonality         | Polyclonal                                               |
| Calculated MW     | 70kDa kDa                                                |

**KEAP1 antibody - C-terminal region - Additional Information****Gene ID 9817**

|              |                                                                        |
|--------------|------------------------------------------------------------------------|
| Alias Symbol | INrf2, KIAA0132, KLHL19, MGC10630, MGC1114, MGC20887, MGC4407, MGC9454 |
|--------------|------------------------------------------------------------------------|

**Other Names**

Kelch-like ECH-associated protein 1, Cytosolic inhibitor of Nrf2, INrf2, Kelch-like protein 19, KEAP1, INRF2, KIAA0132, KLHL19

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 100 ul of distilled water. Final anti-KEAP1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

KEAP1 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

**KEAP1 antibody - C-terminal region - Protein Information**

**Name** KEAP1 {ECO:0000303|PubMed:14585973, ECO:0000312|HGNC:HGNC:23177}

**Function**

Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin ligase complex that regulates the response to oxidative stress by targeting NFE2L2/NRF2 for ubiquitination (PubMed:<a href="http://www.uniprot.org/citations/14585973" target="\_blank">14585973</a>, PubMed:<a href="http://www.uniprot.org/citations/15379550" target="\_blank">15379550</a>, PubMed:<a href="http://www.uniprot.org/citations/15572695" target="\_blank">15572695</a>, PubMed:<a

href="http://www.uniprot.org/citations/15601839" target="\_blank">15601839</a>, PubMed:<a href="http://www.uniprot.org/citations/15983046" target="\_blank">15983046</a>, PubMed:<a href="http://www.uniprot.org/citations/37339955" target="\_blank">37339955</a>). KEAP1 acts as a key sensor of oxidative and electrophilic stress: in normal conditions, the BCR(KEAP1) complex mediates ubiquitination and degradation of NFE2L2/NRF2, a transcription factor regulating expression of many cytoprotective genes (PubMed:<a href="http://www.uniprot.org/citations/15601839" target="\_blank">15601839</a>, PubMed:<a href="http://www.uniprot.org/citations/16006525" target="\_blank">16006525</a>). In response to oxidative stress, different electrophile metabolites trigger non-enzymatic covalent modifications of highly reactive cysteine residues in KEAP1, leading to inactivate the ubiquitin ligase activity of the BCR(KEAP1) complex, promoting NFE2L2/NRF2 nuclear accumulation and expression of phase II detoxifying enzymes (PubMed:<a href="http://www.uniprot.org/citations/16006525" target="\_blank">16006525</a>, PubMed:<a href="http://www.uniprot.org/citations/17127771" target="\_blank">17127771</a>, PubMed:<a href="http://www.uniprot.org/citations/18251510" target="\_blank">18251510</a>, PubMed:<a href="http://www.uniprot.org/citations/19489739" target="\_blank">19489739</a>, PubMed:<a href="http://www.uniprot.org/citations/29590092" target="\_blank">29590092</a>). In response to selective autophagy, KEAP1 is sequestered in inclusion bodies following its interaction with SQSTM1/p62, leading to inactivation of the BCR(KEAP1) complex and activation of NFE2L2/NRF2 (PubMed:<a href="http://www.uniprot.org/citations/20452972" target="\_blank">20452972</a>). The BCR(KEAP1) complex also mediates ubiquitination of SQSTM1/p62, increasing SQSTM1/p62 sequestering activity and degradation (PubMed:<a href="http://www.uniprot.org/citations/28380357" target="\_blank">28380357</a>). The BCR(KEAP1) complex also targets BPTF and PGAM5 for ubiquitination and degradation by the proteasome (PubMed:<a href="http://www.uniprot.org/citations/15379550" target="\_blank">15379550</a>, PubMed:<a href="http://www.uniprot.org/citations/17046835" target="\_blank">17046835</a>).

#### Cellular Location

Cytoplasm. Nucleus. Note=Mainly cytoplasmic (PubMed:15601839). In response to selective autophagy, relocalizes to inclusion bodies following interaction with SQSTM1/p62 (PubMed:20452972).

#### Tissue Location

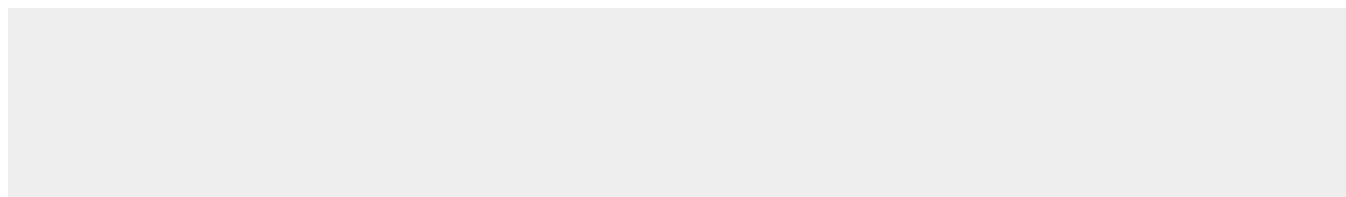
Broadly expressed, with highest levels in skeletal muscle.

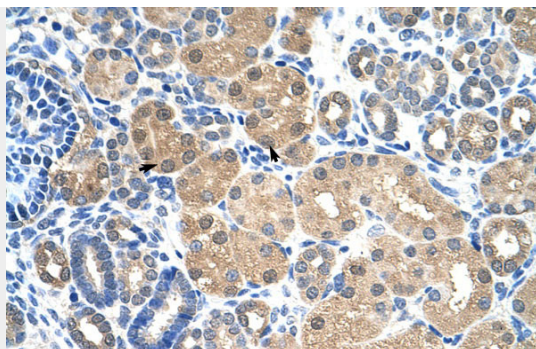
#### KEAP1 antibody - C-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

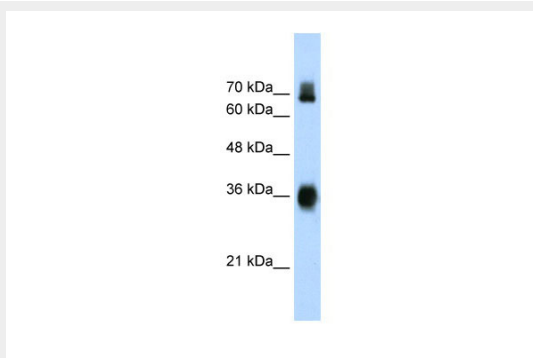
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### KEAP1 antibody - C-terminal region - Images





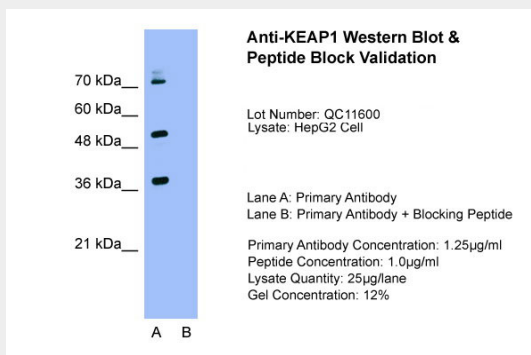
Human kidney



WB Suggested Anti-KEAP1 Antibody Titration: 1.0µg/ml

Positive Control: HepG2 cell lysate

KEAP1 is supported by BioGPS gene expression data to be expressed in HepG2



Host: Rabbit

Target Name:KEAP1

Sample Tissue:HepG2

Lane A: Primary Antibody

Lane B: Primary Antibody + Blocking Peptide

Primary Antibody

Concentration:1.25µg/ml

Peptide Concentration: 1.0µg/ml

Lysate Quantity: 25ug/lane Gel

Concentration: 12%KEAP1 is supported by BioGPS gene expression data to be expressed in HepG2

### KEAP1 antibody - C-terminal region - References

Padmanabhan,B., (2006) Mol. Cell 21 (5), 689-700 Reconstitution and Storage:For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.