

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

KEAP1 antibody - C-terminal region - Product Information

Application	IHC, WB
Primary Accession	Q14145
Other Accession	NM_203500 , NP_987096
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:14585973, PubMed:15379550, PubMed:15572695, PubMed:15572695, PubMed:15572695)

[15601839](http://www.uniprot.org/citations/15601839), PubMed: [15983046](http://www.uniprot.org/citations/15983046), PubMed: [37339955](http://www.uniprot.org/citations/37339955)). 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: [15601839](http://www.uniprot.org/citations/15601839), PubMed: [16006525](http://www.uniprot.org/citations/16006525)). 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: [16006525](http://www.uniprot.org/citations/16006525), PubMed: [17127771](http://www.uniprot.org/citations/17127771), PubMed: [18251510](http://www.uniprot.org/citations/18251510), PubMed: [19489739](http://www.uniprot.org/citations/19489739), PubMed: [29590092](http://www.uniprot.org/citations/29590092)). 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: [20452972](http://www.uniprot.org/citations/20452972)). The BCR(KEAP1) complex also mediates ubiquitination of SQSTM1/p62, increasing SQSTM1/p62 sequestering activity and degradation (PubMed: [28380357](http://www.uniprot.org/citations/28380357)). The BCR(KEAP1) complex also targets BPTF and PGAM5 for ubiquitination and degradation by the proteasome (PubMed: [15379550](http://www.uniprot.org/citations/15379550), PubMed: [17046835](http://www.uniprot.org/citations/17046835)).

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

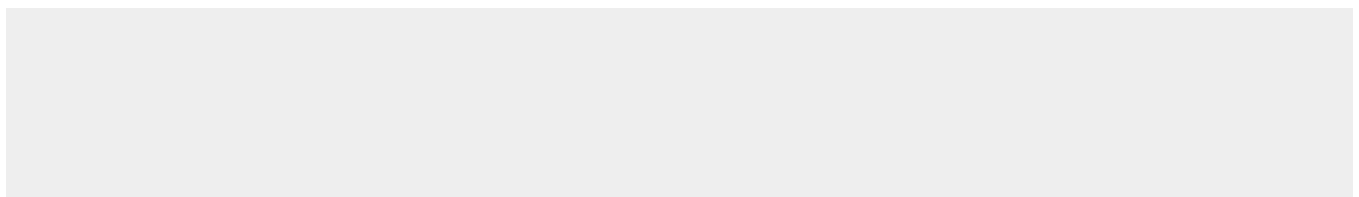
Broadly expressed, with highest levels in skeletal muscle.

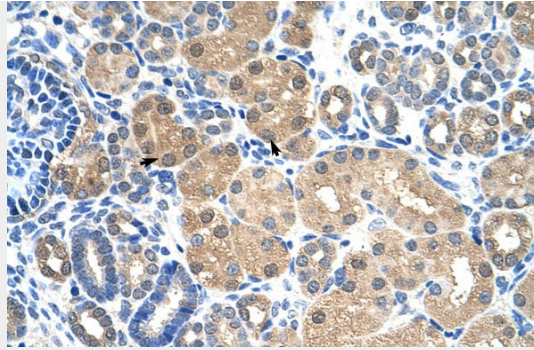
KEAP1 antibody - C-terminal region - Protocols

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

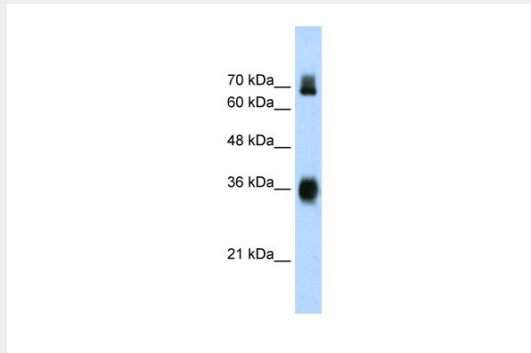
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KEAP1 antibody - C-terminal region - Images





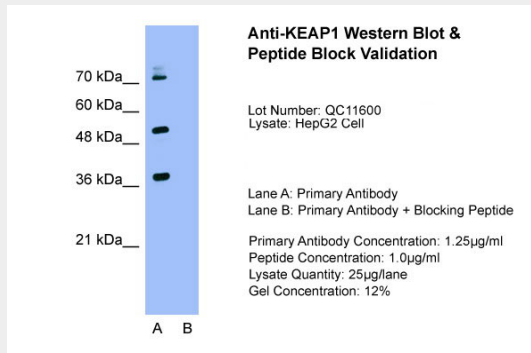
Human kidney



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.