

# KEAP1 antibody - C-terminal region

Rabbit Polyclonal Antibody  
Catalog # AI10715

## Product Information

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<b>Application</b>	WB, IHC
<b>Primary Accession</b>	<a href="#">Q14145</a>
<b>Other Accession</b>	<a href="#">NM_203500</a> , <a href="#">NP_987096</a>
<b>Reactivity</b>	Human, Mouse, Rat, Rabbit, Zebrafish, Dog, Horse, Bovine
<b>Predicted</b>	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Bovine
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	69666

## Additional Information

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<b>Gene ID</b>	9817
<b>Alias Symbol</b>	INrf2, KIAA0132, KLHL19, MGC10630, MGC1114, MGC20887, MGC4407, MGC9454
<b>Other Names</b>	Kelch-like ECH-associated protein 1, Cytosolic inhibitor of Nrf2, INrf2, Kelch-like protein 19, KEAP1, INRF2, KIAA0132, KLHL19
<b>Format</b>	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
<b>Reconstitution &amp; Storage</b>	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.
<b>Precautions</b>	KEAP1 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	KEAP1 {ECO:0000303   PubMed:14585973, ECO:0000312   HGNC:HGNC:23177}
<b>Function</b>	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="#">14585973</a> , PubMed: <a href="#">15379550</a> , PubMed: <a href="#">15572695</a> , PubMed: <a href="#">15601839</a> , PubMed: <a href="#">15983046</a> , PubMed: <a href="#">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="#">15601839</a> , PubMed: <a href="#">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:[16006525](#), PubMed:[17127771](#), PubMed:[18251510](#), PubMed:[19489739](#), PubMed:[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](#)). The BCR(KEAP1) complex also mediates ubiquitination of SQSTM1/p62, increasing SQSTM1/p62 sequestering activity and degradation (PubMed:[28380357](#)). The BCR(KEAP1) complex also targets BPTF and PGAM5 for ubiquitination and degradation by the proteasome (PubMed:[15379550](#), PubMed:[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).

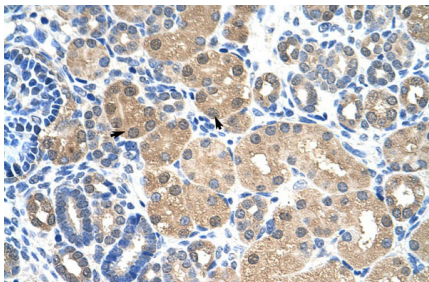
### Tissue Location

Broadly expressed, with highest levels in skeletal muscle.

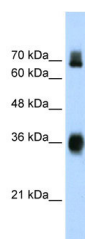
## References

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.

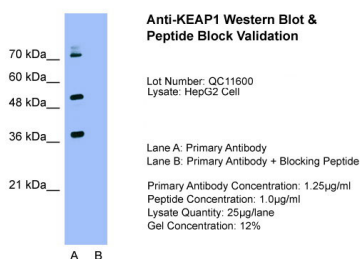
## Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.