

KEAP1 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10441b

Specification

KEAP1 Antibody (C-term) - Product Information

Application	WB, FC,E
Primary Accession	Q14145
Other Accession	Q684M4 , NP_036421.2 , NP_987096.1
Reactivity	Human
Predicted	Pig
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	429-459aa

KEAP1 Antibody (C-term) - Additional Information

Gene ID 9817

Other Names

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

Target/Specificity

This KEAP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the C-terminal region of human KEAP1.

Dilution

WB~~1:1000
FC~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

KEAP1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

KEAP1 Antibody (C-term) - 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:[15601839](#), PubMed:[15983046](#), PubMed:[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](#), PubMed:[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](#), 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

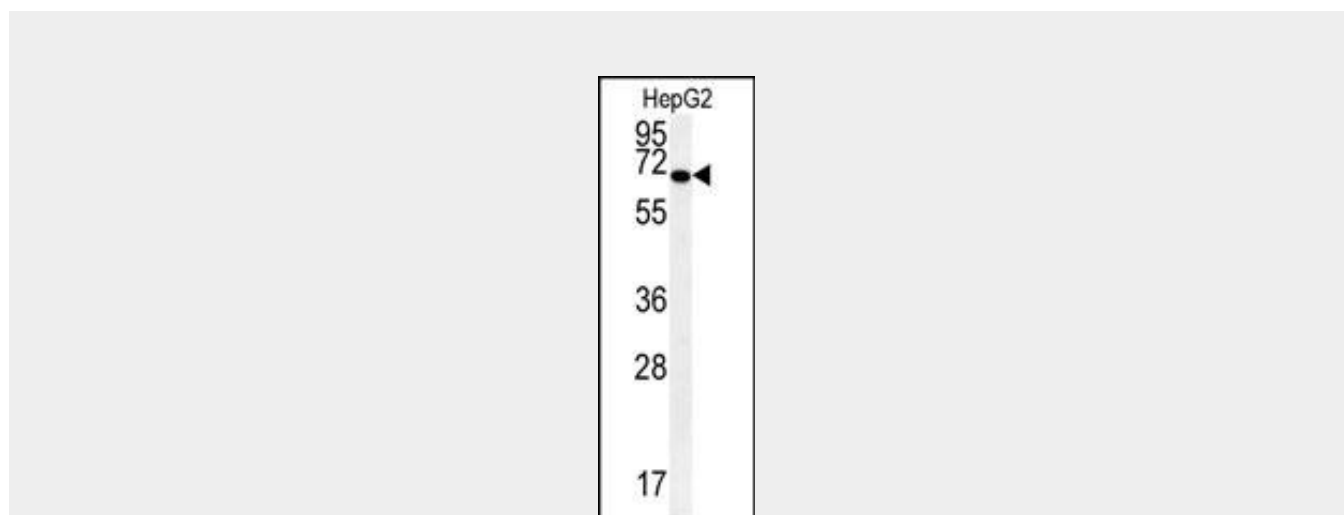
Broadly expressed, with highest levels in skeletal muscle.

KEAP1 Antibody (C-term) - Protocols

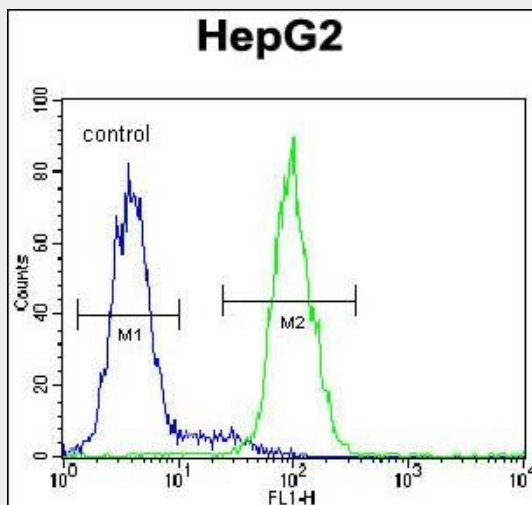
Provided below are standard protocols that you may find useful for product applications.

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

KEAP1 Antibody (C-term) - Images



KEAP1 Antibody (C-term) (Cat. #AP10441b) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the KEAP1 antibody detected the KEAP1 protein (arrow).



KEAP1 Antibody (C-term) (Cat. #AP10441b) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.