

**KEAP1 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP10441b****Specification**

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**KEAP1 Antibody (C-term) Blocking Peptide - Product Information**

Primary Accession [O14145](#)  
Other Accession [NP\\_036421.2](#), [NP\\_987096.1](#)

**KEAP1 Antibody (C-term) Blocking Peptide - 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

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**KEAP1 Antibody (C-term) Blocking Peptide - 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/15983046" target="\_blank">15983046</a>, PubMed:<a href="http://www.uniprot.org/citations/15601839" target="\_blank">15601839</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/19489739" target="\_blank">19489739</a>, 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/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-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

#### **KEAP1 Antibody (C-term) Blocking Peptide - Images**