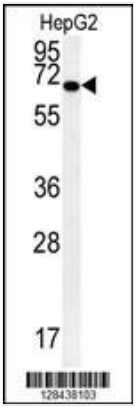
KEAP1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	KEAP1, Polyclonal Antibody
Full Product Name	KEAP1, CT (KEAP1, INRF2, KIAA0132, KLHL19, Kelch-like ECH-associated protein 1, Cytosolic inhibitor of Nrf2, Kelch-like protein 19)
Product Gene Name	anti-KEAP1 antibody
Product Synonym Names	Anti -KEAP1, CT (KEAP1, INRF2, KIAA0132, KLHL19, Kelch-like ECH-associated protein 1, Cytosolic inhibitor of Nrf2, Kelch-like protein 19)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Human
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	69,666 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (10596796..10614054, complement). Location: 19p13.2
OMIM	606016
3D Structure	ModBase 3D Structure for Q14145
Immunogen	KEAP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 429-457 amino acids from the C-terminal region of human KEAP1.
Product Categories/Family for anti-KEAP1 antibody	Antibodies; Abs to KIAA; orf
Applications Tested/Suitable for anti-KEAP1 antibody	ELISA (EL/EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-KEAP1 antibody	Suitable for use in Western Blot, Immunohistochemistry, ELISA Dilution: ELISA: 1:1,000 Western Blot: 1:100-500 Immunohistochemistry: 1:50-100
Related Product Information for anti-KEAP1 antibody	MBS647475 is an antibody targeting KEAP1. Also known as KEAP1, CT (KEAP1, INRF2, KIAA0132, KLHL19, Kelch-like ECH-associated protein 1, Cytosolic inhibitor of Nrf2, Kelch-like protein 19). Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-KEAP1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-KEAP1 antibody
KEAP1 Antibody (C-term) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the KEAP1 antibody detected the KEAP1 protein (arrow).



Immunohistochemistry (IHC) of anti-KEAP1 antibody
KEAP1 antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the KEAP1 antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KEAP1. It may not necessarily be applicable to this product.

NCBI GI #	45269145
NCBI GeneID	9817
NCBI Accession #	NP_987096.1
UniProt Primary Accession #	Q14145
UniProt Secondary Accession #	Q6LEP0; Q8WTX1; Q9BPY9; B3KPD5
UniProt Related Accession #	Q14145
GenBank Nucleotide #	NM_203500.1
NCBI Official Full Name	kelch-like ECH-associated protein 1
NCBI Official Synonym Full Names	kelch-like ECH-associated protein 1
NCBI Official Symbol	KEAP1
NCBI Official Synonym Symbols	INrf2; KLHL19
UniProt Protein Name	Kelch-like ECH-associated protein 1
UniProt Synonym Protein Names	Cytosolic inhibitor of Nrf2; INrf2; Kelch-like protein 19
Protein Family	Kelch-like ECH-associated protein
UniProt Gene Name	KEAP1
UniProt Synonym Gene Names	INRF2; KIAA0132; KLHL19; INrf2
UniProt Entry Name	KEAP1_HUMAN
NCBI Protein Information	kelch-like ECH-associated protein 1; kelch-like protein 19; cytosolic inhibitor of Nrf2; kelch-like family member 19
NCBI Summary for KEAP1	This gene encodes a protein containing KELCH-1 like domains, as well as a BTB/POZ domain. Kelch-like ECH-associated protein 1 interacts with NF-E2-related factor 2 in a redox-sensitive manner and the dissociation of the proteins in the cytoplasm is followed by transportation of NF-E2-related factor 2 to the nucleus. This interaction results in the expression of the catalytic subunit of gamma-glutamylcysteine synthetase. Two alternatively spliced transcript variants encoding the same isoform have been found for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for KEAP1	Function: Acts as a substrate adapter protein for the E3 ubiquitin ligase complex formed by CUL3 and RBX1 and targets NFE2L2/NRF2 for ubiquitination and degradation by the proteasome, thus resulting in the suppression of its transcriptional activity and the repression of antioxidant response element-mediated detoxifying enzyme gene expression. Retains NFE2L2/NRF2 and may also retain BPTF in the cytosol. Targets PGAM5 for ubiquitination and degradation by the proteasome. Ref.7 Ref.8 Ref.9 Ref.10 Ref.13 Enzyme regulation: Ubiquitination and subsequent degradation of PGAM5 is inhibited by oxidative stress and sulforaphane. Sulforaphane also inhibits ubiquitination of NFE2L2/NRF2. Ref.10 Ref.13 Pathway: Protein modification; protein ubiquitination. Subunit structure: Homodimer. Forms a ternary complex with NFE2L2 and PGAM5. Interacts with the N-terminal regulatory domain of NFE2L2/NRF2. Interacts with BPTF and PTMA. Interacts with CUL3. Part of a complex that contains KEAP1, CUL3 and RBX1. Interacts with NFE2L1. Interacts indirectly with ENC1. Ref.8 Ref.9 Ref.10 Ref.11 Ref.12 Ref.13 Ref.14 Ref.15 Ref.19 Subcellular location: Cytoplasm. Nucleus. Note: Shuttles between cytoplasm and nucleus. Ref.7 Ref.8 Ref.11 Ref.15 Tissue specificity: Broadly expressed, with highest levels in skeletal muscle. Ref.8 Domain: The Kelch repeats mediate interaction with NF2L2/NRF2, BPTF and PGAM5. Ref.13 Post-translational modification: Ubiquitinated by the E3 ubiquitin ligase complex formed by CUL3 and RBX1 and is subject to proteasomal-independent degradation. Quinone-induced oxidative stress, but not sulforaphane, increases its ubiquitination. Ubiquitination and subsequent degradation is most pronounced following prolonged exposure of cells to oxidative stress, particularly in glutathione-deficient cells that are highly susceptible to oxidative stress. Ref.9 Ref.10 Sequence similarities: Contains 1 BACK (BTB/Kelch associated) domain.Contains 1 BTB (POZ) domain.Contains 6 Kelch repeats. Sequence caution: The sequence BAA09481.3 differs from that shown. Reason: Erroneous initiation. Translation N-terminally shortened.
Research Articles on KEAP1	**1.** Data suggest that Keap1 does not contribute to hypoxic Nrf2 suppression, and both HIF-1alpha and Siah2 are key regulators of hypoxic responses.
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