KEAP1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	KEAP1, Polyclonal Antibody
Full Product Name	KEAP1 (Kelch-like ECH-associated Protein 1, Cytosolic Inhibitor of Nrf2, INrf2, Kelch-like Protein 19, INRF2, KIAA0132, KLHL19) (PE)
Product Gene Name	anti-KEAP1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human KEAP1. Species Crossreactivity: Mouse and rat.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	69,666 Da
OMIM	606016
3D Structure	ModBase 3D Structure for Q14145
Immunogen	Synthetic linear peptide corresponding to human KEAP1 (KLH).
Conjugate	PE
Positive Control	HeLa Cell Lysate
Note	Preservative Free
Product Categories/Family for anti-KEAP1 antibody	Antibodies; Kelch-like Proteins
Applications Tested/Suitable for anti-KEAP1 antibody	Immunocytochemistry (ICC), Western Blot (WB)
Application Notes for anti-KEAP1 antibody	ICC: 2ug/ml WB: 1ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-KEAP1 antibody	MBS6269747 is an antibody targeting KEAP1. Also known as KEAP1 (Kelch-like ECH-associated Protein 1, Cytosolic Inhibitor of Nrf2, INrf2, Kelch-like Protein 19, INRF2, KIAA0132, KLHL19) (PE). Reactive in Human, Mouse, Rat. Host: Rabbit.
Product References and Citations for anti-KEAP1 antibody	1. Lee, S., et al. (2011). World J Cardiol. 3(1):18-24. 2. Kundu, J.K., et al. (2010). Pharm Res. 27(6): 999-1013. 3. Li, C.Q., et al. (2009). Proc Natl Acad Sci USA. 106(34):14547-14551.
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.

ADDITIONAL DETAILS

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

NCBI GI #	22027642
NCBI GeneID	9817
NCBI Accession #	NP_036421
UniProt Primary Accession #	Q14145
UniProt Secondary Accession #	Q6LEP0; Q8WTX1; Q9BPY9; B3KPD5
UniProt Related Accession #	Q14145
GenBank Nucleotide #	NM_012289
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; cytosolic inhibitor of Nrf2; kelch-like family member 19; kelch-like protein 19

UniProt Comments for KEAP1	KEAP1: a substrate adapter protein for the E3 ubiquitin ligase complex formed by CUL3 and RBX1. Has tumor suppressor activity. Retains NRF2, BPTF and PGAM5 in the cytosol. Targets NRF2 for ubiquitination and degradation by the proteasome, thus resulting in the suppression of its transcriptional activity and of antioxidant response element-mediated detoxifying enzyme gene expression. Somatic mutations of KEAP1 or NRF2 commonly occur in solid cancers, irrespective of histological type, resulting in the constitutive transcription of cytoprotective genes. Genetic disruption of the KEAP1/CUL3 E3 ubiquitin ligase complex leads to the activation of the NF-kappaB pathway in lung cancer. Alternative activation of the cytoprotective NRF2 pathway exist in the absence of mutations in KEAP1 and HRF2: WTX, PALB2, SQSTM1, and DPP3 can competitively bind KEAP1. These proteins and others that bind KEAP1 contain an Â¿ETGEÂ¿ amino acid motif, which matches the KEAP1 interaction motif found in NRF2. Binding of these Â¿ETGEÂ¿-containing proteins can displace NRF2, freeing it to translocate to the nucleus and implement its cytoprotective transcriptional pathway. The DPP3 gene is frequently overexpressed in squamous cell lung carcinomas with high wt NRF2 activity. Its expression level significantly correlates with the response rate and progression-free survival of platinum-based first-line chemotherapy. May be a useful biomarker for predicting the chemosensitivity of patients with advanced-stage NSCLC. Broadly expressed, with highest levels in skeletal muscle. Ubiquitination and subsequent degradation of PGAM5 is inhibited by oxidative stress and sulforaphane. Protein type: Ubiquitin conjugating system; Transcription regulation; Motility/polarity/chemotaxis; Endoplasmic reticulum Chromosomal Location of Human Ortholog: 19p13.2 Cellular Component: nucleoplasm; endoplasmic reticulum; cytoplasm; microtubule organizing center; midbody; cytosol Molecular Function: protein binding; transcription factor binding Biological Process: transcription, DNA-dependent; in utero embryonic development; positive regulation of proteasomal ubiquitin-dependent protein catabolic process; negative regulation of transcription factor activity; proteasomal ubiquitin-independent protein catabolic process; protein ubiquitination; regulation of epidermal cell differentiation
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