

KD-Validated Anti-KEAP1 Mouse Monoclonal Antibody
Mouse monoclonal antibody
Catalog # AGI1111**Specification****KD-Validated Anti-KEAP1 Mouse Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	Q14145
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	Predicted, 70 kDa, observed, 55-60 kDa
Gene Name	KDa
Aliases	KEAP1 KEAP1; Kelch Like ECH Associated Protein 1; KLHL19; INrf2; KIAA0132; Kelch-Like ECH-Associated Protein 1; Kelch-Like Family Member 19; Cytosolic Inhibitor Of Nrf2; Kelch-Like Protein 19; MGC10630; MGC20887; MGC1114; MGC4407; MGC9454; KEAP1 Delta C; INRF2
Immunogen	Recombinant protein of human KEAP1

KD-Validated Anti-KEAP1 Mouse Monoclonal Antibody - Additional Information

Gene ID	9817
Other Names	
Kelch-like ECH-associated protein 1, Cytosolic inhibitor of Nrf2 {ECO:0000303 Ref.1}, INrf2 {ECO:0000303 Ref.1}, Kelch-like protein 19 {ECO:0000312 HGNC:HGNC:23177}, KEAP1 {ECO:0000303 PubMed:14585973, ECO:0000312 HGNC:HGNC:23177}	

KD-Validated Anti-KEAP1 Mouse Monoclonal Antibody - 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:15601839, PubMed:15601839).

<http://www.uniprot.org/citations/16006525> target="_blank">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, relocates to inclusion bodies following interaction with SQSTM1/p62 (PubMed:20452972).

Tissue Location

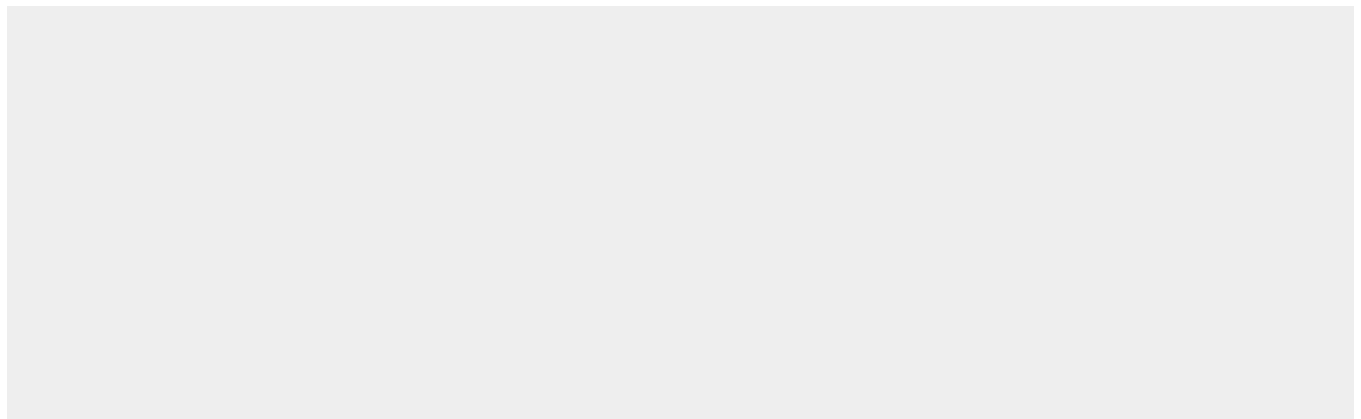
Broadly expressed, with highest levels in skeletal muscle.

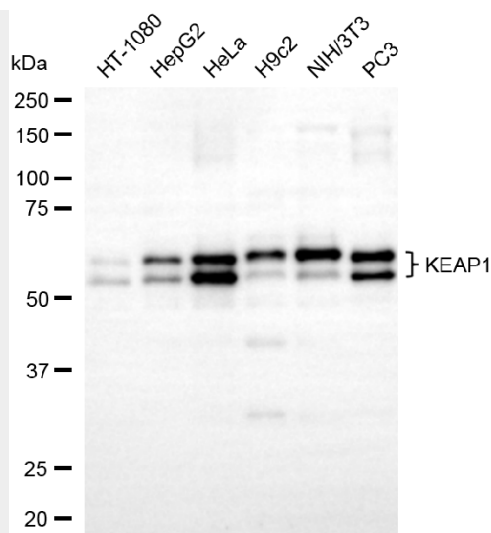
KD-Validated Anti-KEAP1 Mouse Monoclonal Antibody - Protocols

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](#)

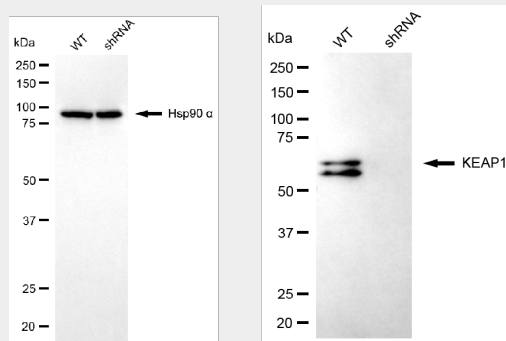
KD-Validated Anti-KEAP1 Mouse Monoclonal Antibody - Images





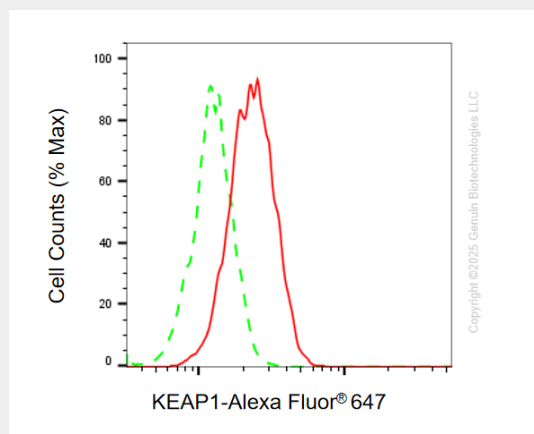
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Western blotting analysis using anti-KEAP1 antibody (Cat#AGI1111). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-KEAP1 antibody (Cat#AGI1111, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



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Western blotting analysis using anti-KEAP1 antibody (Cat#AGI1111). KEAP1 expression in wild-type (WT) and KEAP1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-KEAP1 antibody (Cat#AGI1111, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



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Flow cytometric analysis of KEAP1 expression in HAP-1 cells using anti-KEAP1 antibody (Cat#AGI1111, 1:2,000). Green, isotype control; red, KEAP1.