

Product datasheet for **CF501989**

KEAP1 Mouse Monoclonal Antibody [Clone ID: OTI1G2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1G2
Applications:	FC, IF, WB
Recommended Dilution:	WB 1:2000, IF 1:100, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human KEAP1 (NP_987096) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	69.5 kDa
Gene Name:	kelch like ECH associated protein 1
Database Link:	NP_987096 Entrez Gene 50868 Mouse Entrez Gene 117519 Rat Entrez Gene 9817 Human Q14145



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Background:

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]

Synonyms:

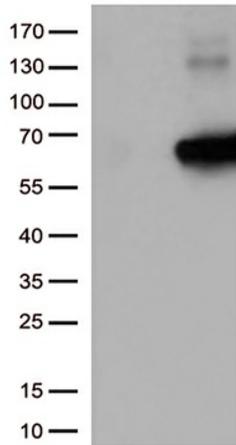
INrf2; KLHL19

Protein Families:

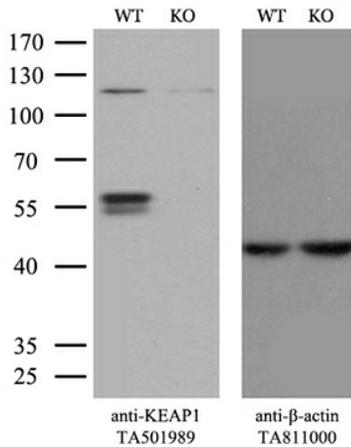
Transcription Factors

Protein Pathways:

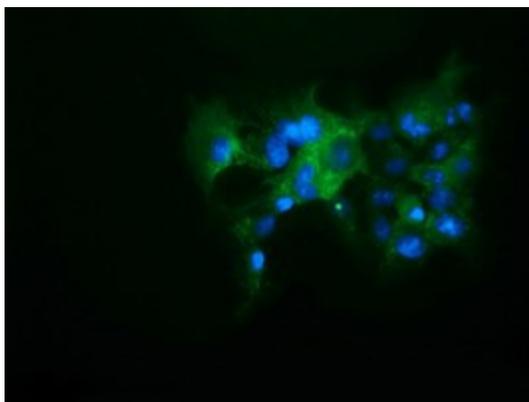
Ubiquitin mediated proteolysis

Product images:


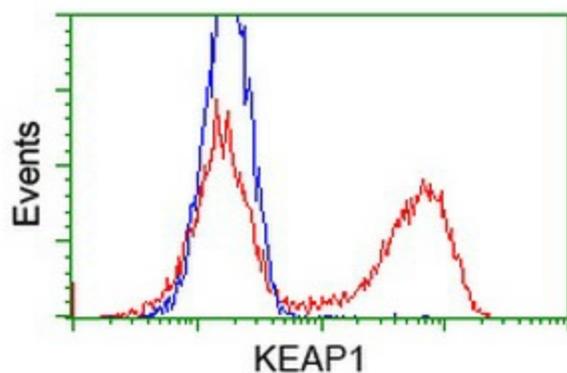
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY KEAP1 [RC202189], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-KEAP1 (1:1000).



Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and KEAP1-Knockout HeLa cells (KO, Cat# [LC810295]) were separated by SDS-PAGE and immunoblotted with anti-KEAP1 monoclonal antibody [TA501989]. Then the blotted membrane was stripped and reprobed with anti-β-actin antibody ([TA811000]) as a loading control (1:200).



Anti-KEAP1 mouse monoclonal antibody ([TA501989]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY KEAP1 ([RC202189]).



HEK293T cells transfected with either [RC202189] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-KEAP1 antibody ([TA501989]), and then analyzed by flow cytometry.