

Product datasheet for CF502056

OriGene Technologies, Inc.

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KEAP1 Mouse Monoclonal Antibody [Clone ID: OTI1A1]

Product data:

Product Type: Primary Antibodies

Clone Name: OTI1A1

Applications: FC, IF, WB

Recommended Dilution: WB 1:2000, 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 MouseEntrez Gene 117519 RatEntrez Gene 9817 Human

Q14145





Background:

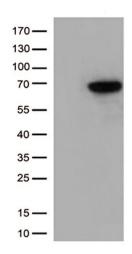
This gene encodes a protein containing KELCH-1 like domains, as well as a BTB/POZ domain. Kelch-like ECH-associated protein 1 interacts with NF-E2-related factor 2 in a redox-sensitive manner and the dissociation of the proteins in the cytoplasm is followed by transportation of NF-E2-related factor 2 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

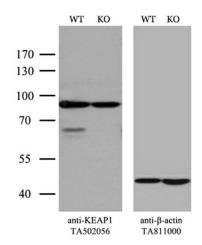
Protein Families: Transcription Factors

Protein Pathways: Ubiquitin mediated proteolysis

Product images:

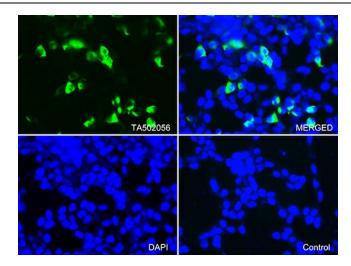


HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY KEAP1 ([RC202189], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-KEAP1 (1:1000).

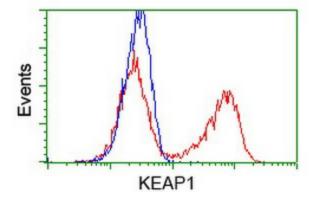


Equivalent amounts of cell lysates (10 ug per lane) of wild-type Hela cells (WT, Cat# LC810HELA) and KEAP1-Knockout Hela cells (KO, Cat# [LC810295]) were separated by SDS-PAGE and immunoblotted with anti-KEAP1 monoclonal antibody [TA502056]. Then the blotted membrane was stripped and reprobed with antibactin antibody ([TA811000]) as a loading control (1:500).





Immunofluorescent staining of 293T cells transfected by pCMV6-ENTRY KEAP1 ([RC202189]) using anti-KEAP1 antibody ([TA502056]/green, upper left; DAPI/blue, lower left; MERGED, upper right). 293T cells transfected with empty vector served as a negative control (MERGED, lower right) (1:100).



HEK293T cells transfected with either [RC202189] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-KEAP1 antibody ([TA502056]), and then analyzed by flow cytometry.