

Recombinant Human KEAP1 protein, His-tagged

Cat. No. KEAP1-829H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human KEAP1(a.a: 321-609) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	321-609 a.a.
Description	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.
Form	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 200 mM imidazole, 3 mM DTT, 20% glycerol
Molecular Mass	32.6 kDa
Purity	>90%
Applications	Useful for studying protein binding and screening small molecules.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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Storage	> 6 months at –80 centigrade.
Concentration	3.6 mg/ml
Warning	Avoid freeze/thaw cycles. Storing diluted protein is not recommended, if necessary, include carrier protein (BSA 0.1 – 0.5%).

GENE INFORMATION

Gene Name	KEAP1 kelch-like ECH-associated protein 1 [Homo sapiens]
Official Symbol	KEAP1
Synonyms	KEAP1; kelch-like ECH-associated protein 1; INrf2; KIAA0132; KLHL19; MGC1114; MGC4407; MGC9454; MGC10630; MGC20887; kelch-like protein 19; cytosolic inhibitor of Nrf2;
Gene ID	9817
mRNA Refseq	NM_203500
Protein Refseq	NP_987096
MIM	606016
UniProt ID	Q14145
Chromosome Location	19p13.2
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen processing: Ubiquitination and Proteasome degradation, organism-specific biosystem; Class I

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MHC mediated antigen processing & presentation, organism-specific biosystem;
Immune System, organism-specific biosystem; Keap1-Nrf2 Pathway, organism-specific biosystem;

Function

protein binding;

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