

Recombinant Human IREB2 protein, His & T7-tagged

Cat. No. IREB2-1571H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human IREB2 aa. (Pro39~Ser281 (Accession # P48200)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Pro39~Ser281
Description	The protein encoded by this gene is an RNA-binding protein that acts to regulate iron levels in the cells by regulating the translation and stability of mRNAs that affect iron homeostasis under conditions when iron is depleted. When iron levels are low, this protein binds to iron-responsive elements (IRES), stem-loop structures located either in the 5' or 3' UTRs. Binding to the 5' UTR represses translation, while binding to the 3' UTR inhibits mRNA degradation. When iron is found in the cell, this protein is degraded in a F-box and leucine rich repeat protein 5-dependent manner. Variants in this gene have been associated with lung cancer and chronic obstructive pulmonary disease (COPD). Alternative splicing results in multiple transcript variants encoding different isoforms.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 30.6kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)

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Purity	>95%
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
Isoelectric Point	6.5

GENE INFORMATION

Gene Name	IREB2 iron responsive element binding protein 2 [Homo sapiens (human)]
Official Symbol	IREB2
Synonyms	IREB2; iron responsive element binding protein 2; ACO3; IRP2; IRP2AD; IRE-BP2; IRE-BP 2; iron-responsive element-binding protein 2; iron regulatory protein 2
Gene ID	3658
mRNA Refseq	NM_001320941.1

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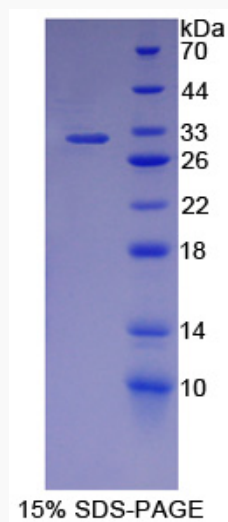
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Protein Refseq NP_001307870.1

UniProt ID P48200

SDS-PAGE



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