

## Recombinant Human IREB2 protein, His & T7-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human IREB2 aa. (Pro39~Ser281 (Accession # P48200)) fused with N-terminal His & T7 tag was produced in E. coli cells.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Pro39~Ser281
<b>Description</b>	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.
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	Predicted Molecular Mass: 30.6kDa
<b>Endotoxin</b>	<1.0EU per 1ug (determined by the LAL method)

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<b>Purity</b>	>95%
<b>Applications</b>	SDS-PAGE; WB; ELISA; IP.
<b>Stability</b>	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.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
<b>Storage buffer</b>	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
<b>Reconstitution</b>	Reconstitute in sterile PBS, pH7.2-pH7.4.
<b>Isoelectric Point</b>	6.5

## GENE INFORMATION

<b>Gene Name</b>	IREB2 iron responsive element binding protein 2 [ Homo sapiens (human) ]
<b>Official Symbol</b>	IREB2
<b>Synonyms</b>	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
<b>Gene ID</b>	3658
<b>mRNA Refseq</b>	NM_001320941.1

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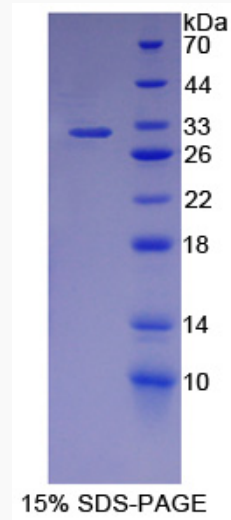
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Protein Refseq NP\_001307870.1

UniProt ID P48200

SDS-PAGE



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