

Recombinant Human IREB2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. IREB2-2269H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	IREB2 MS Standard C13 and N15-labeled recombinant protein (NP_004127) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	104.9 kDa
AA Sequence	MDAPKAGYAFEYLIETLNDSSHKKFFDVSKLGTKYDVLPSIRVLLAAVRNCDGFL MKKEDVMNILDWTKQSNVEVPFFPARVLLQDFTGIPAMVDFAAMREAVKTLGGDP EKVHPACPTDLTVDHSLQIDFSKCAIQNAPNPGGDLQKAGKLSPLKVQPKKLPCR

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GQTTCRGSCDSGELGRNSGTFSSQIENTPILCPFHLQVPPEPETVLKNQEVEFGRN
 RERLQFFKWSSRVFKNVAVIPPGTGMAHQINLEYLSRVVFEEKDLLFPDSVVGTDSDH
 ITMVNGLGILGWGVGGIETEAVMLGLPVSLTLPEVVGCELTGSSNPFVTSIDVVLGIT
 KHLRQVG VAGKFVEFFGSGVSQLSIVDRTTIANMCPEYGAILSFFPVNDVTLKHLEHT
 GFSKAKLESMETYLKAVKLFRNDQNSSGEPEYSQVIQINLNSIVPSVSGPKRPQDRV
 AVTDMKSDFQACLNEKVGFGKFQIAAEKQKDIVSIHYEGSEYKLSHGSSVIAAIVISCT
 NNCNPSVMLAAGLLAKKAVEAGLRVKPYIRTSLSPGSGMVTHYLSSSGVLPLYLSKLG
 FEIVGYGCSTCVGNTAPLSDAVLNAVQKQDLVTCGILSGNKNFEGRLCDVCVRANYLA
 SPPLVVAYAIAGTVNIDFQTEPLGTDPTGKNIYLHDIWPSREEVHRVEEEHVILSMFK
 ALKDKIEMGNKRWNSLEAPDSVLPWDLKSTYIRCPSFFDKLTKEPIALQAIENAHVL
 LYLGDSTVTDHISPAGSIARNSAAAKYLTNRGLTPREFNSYGARRGNDVMTRGTF
 NIKLFNKFIGKPAPKTIHFPSGQTLDFEAAELYQKEGIPLIILAGKKYSGNSRDWAA
 KGPYLLGVKAVLAESYEKIHKDHILIGIGIAPLQFLPGENADSLGLSGRETFSLTPEEL
 SPGITLNIQTSTGKVFVSIASFEDDVEITLYKHGGLLN FVARKFSTRTRPLEQKLISEED
 LAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name IREB2 iron-responsive element binding protein 2 [Homo sapiens (human)]

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Official Symbol	IREB2
Synonyms	IREB2; iron-responsive element binding protein 2; iron-responsive element-binding protein 2; IRP2; IRE-BP 2; iron regulatory protein 2; ACO3; IRP2AD; FLJ23381;
Gene ID	3658
mRNA Refseq	NM_004136
Protein Refseq	NP_004127
MIM	147582
UniProt ID	P48200

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