

Recombinant Full Length Human IREB2 Protein, C-Flag-tagged

Cat. No. IREB2-516HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human IREB2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	104.9 kDa
AA Sequence	MDAPKAGYAFEYLIETLNDSSHKFFDVSKLGTKYDVLPSYRVLLEAAVRNCDGFL MKKEDVMNILDWK TKQSNVEVPFFPARVLLQDFTGIPAMVDFAAMREAVKTLGGDP EKVHPACPTDLTVDHSLQIDFSKCAIQ NAPNPGGGDLQKAGKLSPLKVQPKKLPKR

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GQTTCRGSCDSGELGRNSGTFSSQIENTPILCPFHLQPVPE PETVLKNQEVEFGRN
 RERLQFFKWSSRVFKNVAVIPPGTGMAHQINLEYLSRVVFEEKDLLFPDSVVGTD S
 HITMVNGLGILGWGVGGIETEAVMLGLPVSLTLPEVVGCELTGSSNPFVTSIDVVLGI
 TKHLRQVGVAG KFVEFFGSGVSQLSIVDRTTIANMCPEYGAILSFFPVDNVTLKHLE
 HTGFSKAKLESMETYLKAVKLFRN DQNSSGEPEYSQVIQINLNSIVPSVSGPKRPQD
 RVAVTDMKSDFQAACLNKVGFKGFQIAAEKQKDIVSI HYGSEYKLSHGSVVIAAVIS
 CTNNCNPSVMLAAGLLAKKAVEAGLRVKPYIRTSLSPGSGMVTHYLSSS GVLPLYLS
 KLGFEIVGYGCSTCVGNTAPLSDAVLNAVKKQGDVTCGILSGNKNFEGRLCDCVRA
 NYLASPP LVVAYAIAGTVNIDFQTEPLGTDPTGKNIYLHDIWPSREEVHRVEEEHVIL
 SMFKALKDKIEMGNKRWNS LEAPDSVLFPWDLKSTYIRCPSSFFDKLTKEPIALQAIE
 NAHVLLYLGDSVTTDHISPAGSIARNSAAAKY LTNRGLTPREFNSYGARRGNDAVM
 TRGTFANIKLFNKFIGKPAPKTIHFPSGQTLDVFEAAELYQKEGIP LIILAGKKYGSNG
 SRDWAAGPYLLGVKAVLAESYEKIHKDHILIGIGIAPLQFLPGENADSLGLSGRET
 SLTFPEELSPGITLNIQTSTGKVFVSVIASFEDDVEITLYKHGGLLNFNVARKFSTRTRPLE
 QKLISEEDLAANDILDYKDDDDKV

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

Stability Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade.

Concentration >50 ug/mL as determined by microplate BCA method.

Preparation Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Protein Families Druggable Genome

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Full Length Full L.

GENE INFORMATION

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

Official Symbol IREB2

Synonyms ACO3; IRP2; IRP2AD; NDCAMA; IRE-BP2; IRE-BP 2

Gene ID 3658

mRNA Refseq NM_004136.4

Protein Refseq NP_004127.2

MIM 147582

UniProt ID P48200

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