

Product datasheet for TP321385M

IREB2 (NM_004136) Human Recombinant Protein

Product data:

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|---------------------------------------|--|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human iron-responsive element binding protein 2 (IREB2), 100 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC221385 representing NM_004136 Red=Cloning site Green=Tags(s) |

MDAPKAGYAFEYLIETLNDSSHKFFDVSKLGTKYDVLPSYRVLLEAAVRNCDGFLMKKEDVMNILDWK
TKQSNVEVPPFFPARVLLQDFTGIPAMVDFAAMREAVKTLGGDPEKVHPACPTDLTVDHSLQIDFSKCAIQ
NAPNPGGGDLQKAGKLSPLKVQPKKLPCRQTTTCRGS CD SGELGRNSGTFSSQIENTPILCFHLQPVPE
PETVLKNQEVEFGRNRERLQFFKWSSRVFKNAVIPPPTGMAHQINLEYLSRVFEEKDLLFPDSVVGTD
SHITMVNGLGILGWGVGGIETEAVMLGLPVSLTLPEVVGCELTGSSNPFVTSIDVWLGITKHLRQVGVAG
KFVEFFGSGVSQLSIVDRTTIANMCPEYGAILSFFPVDNVTLKHLEHTGFSKAKLESMETYLKAVKLFRN
DQNSSGEPEYSQVIQINLNSIVPSVSGPKRPQDRVAVTDMKSDFQAACNEKVGFGKGFQIAAEKQKDIVSI
HYEGSEYKLSHGVSVIAAVISCTNNCNPSVMLAAGLLAKKAVEAGLRVKPYIRTSLSPGSGMVTHYLSSS
GVLPLYSLKLGFEIVGYGCSTCVGNTAPLSDAVLNAVKQGDVLTGILSGNKNFEGRLCDCVRANYLASPP
LVWAYAIAGTVNIDFQTEPLGTDPTGKNIYLHDIWPSREEVHRVEEHHVILSMFKALKDKIEMGNKRWNS
LEAPDSVLFPWDLKSTYIRCPFFDKLTKEPIALQAIENAHVLLYLGDSVTTDHPAGSIARNSAAAKY
LTNRGLTPREFNSYGARRGNDVAVMTRGTFANIKLFNKFIGKPAPKTIHFPSGQTLDFEAAELYQKEGIP
LIILAGKKYSGNSRDWAAKGPYLLGVKAVLAESYEKIHKDHILIGIAPLQFLPGENADSLGLSGRETF
SLTFPEELSPGITLNIQTSTGKVFVSVIASFEDDVEITLYKHGGLLN FVARKFS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

| | |
|----------------|--|
| Tag: | C-Myc/DDK |
| Predicted MW: | 104.9 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |



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Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

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

RefSeq: [NP_004127](#)

Locus ID: 3658

UniProt ID: [P48200](#), [D3DW85](#)

RefSeq Size: 3928

Cytogenetics: 15q25.1

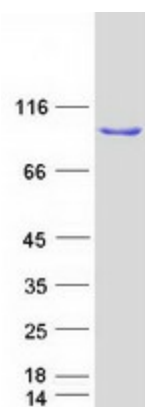
RefSeq ORF: 2889

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

Summary: 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. [provided by RefSeq, Aug 2017]

Protein Families: Druggable Genome

Product images:



Coomassie blue staining of purified IREB2 protein (Cat# [TP321385]). The protein was produced from HEK293T cells transfected with IREB2 cDNA clone (Cat# [RC221385]) using MegaTran 2.0 (Cat# [TT210002]).