

Product datasheet for **TP304631**

IMPACT (NM_018439) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human Impact homolog (mouse) (IMPACT), 20 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC204631 protein sequence
Red=Cloning site **Green**=Tags(s)

MAEGDAGSDQRQNEEIEAMAAIYGEEWCVIDDCAKIFCIRISDDIDDPKWTLCQLQVMLPNEYPGTAPPIY
QLNAPWLKQGERADLSNSLEEIYIQNIGESILYLWVEKIRDVLIQKSQMTEPGPDVKKKTEEEDVECDD
LILACQPESSVKALDFDISETRTEVEVEELPPIDHGIPITDRRSTFQAHLAPVVCVKQVKMVLKLYENK
KIASATHNIYAYRIYCEDKQTFDQDCEDDGETAAGRLLHLMELNVKNVMVVSRWYGGILLGPDRFKH
INNCARNILVEKNYTNPSPESSKALGKNKKVRKDKKRNEH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 36.3 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.

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_060909](#)

Locus ID: 55364

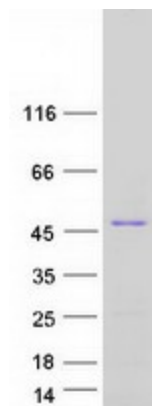


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UniProt ID: [Q9P2X3](#), [A0A024RC24](#)
RefSeq Size: 3764
Cytogenetics: 18q11.2
RefSeq ORF: 960
Synonyms: RWDD5

Summary: Translational regulator that ensures constant high levels of translation upon a variety of stress conditions, such as amino acid starvation, UV-C irradiation, proteasome inhibitor treatment and glucose deprivation. Plays a role as a negative regulator of the EIF2AK4/GCN2 kinase activity; impairs GCN1-mediated EIF2AK4/GCN2 activation, and hence EIF2AK4/GCN2-mediated eIF-2-alpha phosphorylation and subsequent down-regulation of protein synthesis. May be required to regulate translation in specific neuronal cells under amino acid starvation conditions by preventing GCN2 activation and therefore ATF4 synthesis. Through its inhibitory action on EIF2AK4/GCN2, plays a role in differentiation of neuronal cells by stimulating neurite outgrowth.[UniProtKB/Swiss-Prot Function]

Product images:



Coomassie blue staining of purified IMPACT protein (Cat# TP304631). The protein was produced from HEK293T cells transfected with IMPACT cDNA clone (Cat# [RC204631]) using MegaTran 2.0 (Cat# [TT210002]).