

Product datasheet for TP315674

FUBP1 (NM_003902) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Recombinant protein of human far upstream element (FUSE) binding protein 1 (FUBP1), 20 µg
Species: Human
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >RC215674 representing NM_003902
Red=Cloning site Green=Tags(s)

MADYSTVPPPSSGSAGGGGGGGGGVNDAFKDALQRRARQIAAKIGGDAGTSLNSNDYGYGGQKRPLE
 DG
 DQPDAKKVAPQNDSFGTQLPPMHQQSRSVMTEEYKVPDGMVGFIIIGRGGEQISRIQQESGCKIQIAPD
 S
 GGLPERSCMLTGTPEVSQSAKRLLDQIVEKGRPAPGFHHGDGPGNAVQEIMIPASKAGLVIGKGGETIKQ
 LQERAGVKMVMIQDGPQNTGADKPLRITGDPYKVVQAKEMVLELIRDQGGFREVRNEYGSRIIGNEGID
 V
 PIPRFAVGIVIGRNGEMIKKIQNDAGVRIQFKPDDGTTPERIAQITGPPDRCQHAAEIITDLLRSVQAGN
 PGGPGGGRGRGRGQGNWNMGPPGGLQEFNFIVPTGKTGLIIGKGETIKSISQSGARIELQRNPPPN
 A
 DPNMKLFTIRGTPQQIDYARQLIEEKIGGPVNPLGPPVPHGPHGVPVPHGPPGPPGPTMPGPYPNPAPY
 N
 PGPPGPAPHGPPAPYAPQGWGNAYPHWQQQAPPDPAKAGTDPNSAAWAAAYAHYYQQAQPPPAAP
 AGAP
 TTTQTNGQGDQNPAPAGQVDYTKAWEEYKMGQAVPAPTGAPPGQPDYSAAWAEYRQQAAYYA
 QTS
 PQGMPQHPPAPQGQ

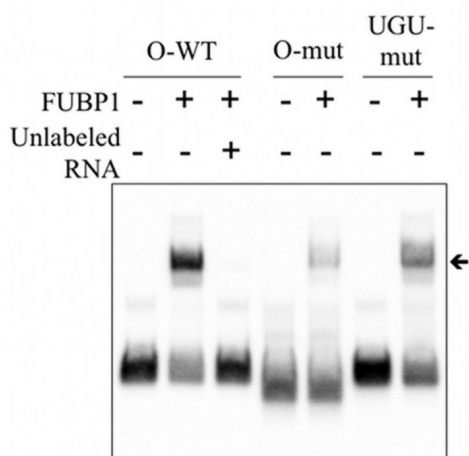
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK
Predicted MW: 67.4 kDa
Concentration: >0.05 µg/µL as determined by microplate BCA method
Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

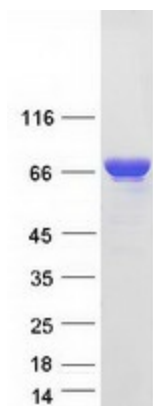


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Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	EMSA assay (PMID: 25662218)
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in 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_003893
Locus ID:	8880
UniProt ID:	Q96AE4
RefSeq Size:	2884
Cytogenetics:	1p31.1
RefSeq ORF:	1932
Synonyms:	FBP; FUBP; hDH V
Summary:	<p>The protein encoded by this gene is a single stranded DNA-binding protein that binds to multiple DNA elements, including the far upstream element (FUSE) located upstream of c-myc. Binding to FUSE occurs on the non-coding strand, and is important to the regulation of c-myc in undifferentiated cells. This protein contains three domains, an amphipathic helix N-terminal domain, a DNA-binding central domain, and a C-terminal transactivation domain that contains three tyrosine-rich motifs. The N-terminal domain is thought to repress the activity of the C-terminal domain. This protein is also thought to bind RNA, and contains 3'-5' helicase activity with in vitro activity on both DNA-DNA and RNA-RNA duplexes. Aberrant expression of this gene has been found in malignant tissues, and this gene is important to neural system and lung development. Binding of this protein to viral RNA is thought to play a role in several viral diseases, including hepatitis C and hand, foot and mouth disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]</p>
Protein Families:	Stem cell - Pluripotency, Transcription Factors

Product images:


FUBP1 binds to the wild-type (wt) RNA probe that contains site O. The O-WT or mutated (O-mut, UGU-mut) biotinylated RNA probes (20 fmol) were incubated for 30 min at room temperature with 200 nM of recombinant FUBP1 protein (OriGene TP315674) and resolved on a 5% native polyacrylamide gel. The arrow indicates band-shifted complexes. For the competition assay, an excess of unlabeled O-WT RNA probe (200 pmol) was added. Figure cited from *Nucleic Acids Res*, PMID: 25662218



Coomassie blue staining of purified FUBP1 protein (Cat# TP315674). The protein was produced from HEK293T cells transfected with FUBP1 cDNA clone (Cat# [RC215674]) using MegaTran 2.0 (Cat# [TT210002]).