

Active Recombinant Full Length Human FUBP1 Protein

Cat. No. FUBP1-166HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human FUBP1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
ProteinLength	1-644 a.a.
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Bio-activity	EMSA assay
Molecular Mass	67.4 kDa
AA Sequence	MADYSTVPPPSSGSAGGGGGGGGGGGVND AFKDALQRARQIAAKIGGDAGTSLNS NDYGYGGQKRPLEDG DQPD AKKVAPQND SFGTQLPPMHQQSRSVMTEEYKVP DGMVGFII GRGGEQISRIQQESGCKIQIAPDS GGLPERSCLTGTPE SVQSAKRLLD QIVEKGRPAPGFHHGDGPGNAVQEIMIPASKAGLVIGKGGETIKQ LQERAGVKMVM QDGPQNTGADKPLRITGDPYKVQQAKEMVLELIRDQGGFREV RNEYGSRIGGNEGI DV PIPRFAVGIVIGRNGEMIKKI QNDAGVRIQFKPDDGTTPERIAQITGPPDRCQHAA EIITDLLRSVQAGN PGGPGPGGRGRGRGQGNWNMGPPGGLQEFNFIVPTGKTGLII GKGGETIKSISQQSGARIELQRNPPNA DPNMKLFTIRGTPQQIDYARQLIEEKIGGP VNPLGPPVPHGPHGVP GPHGPPGPPGPGTPMGPYNPAPYN PGPPGPAPHGPPAP YAPQGWGNAYPHWQQQAPPDPAKAGTDPNSA AWAAYYAHYYQQQAQPPPAAPA GAP TTTQTNGQGDQQNPAPAGQVDYTKAWEEYYKKMGQAVPAPTGAPPGGQPD YSAAWAEYYRQQAAYYAQTS PQGMPQHPPAPQGQTRTRPLEQKLISEEDLAANDILDYKDDDDKV
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	Stem cell - Pluripotency, Transcription Factors
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Full Length	Full L.
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GENE INFORMATION

Gene Name	FUBP1 far upstream element binding protein 1 [Homo sapiens (human)]
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Official Symbol	FUBP1
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Synonyms	FBP; FUBP; hDH V
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Gene ID	8880
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mRNA Refseq	NM_003902.5
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Protein Refseq	NP_003893.2
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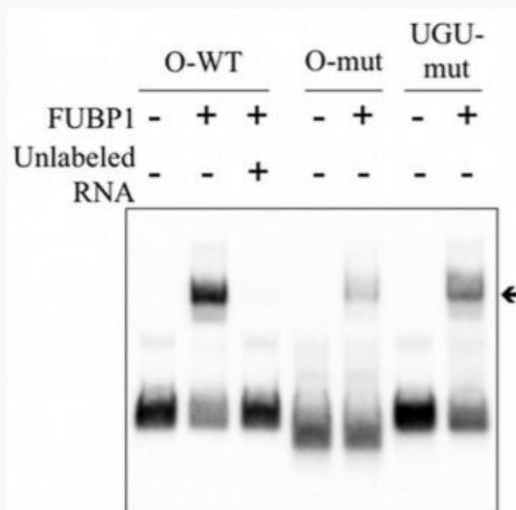
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UniProt ID	Q96AE4
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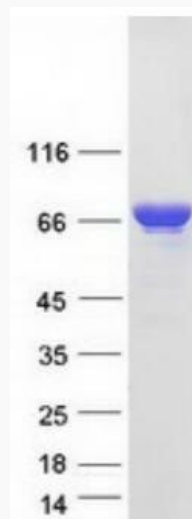
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FUBP1 binds to the wild-type (wt) RNA probe that contains site O. The O-WT or mutated (O-mut, UGU-mut) biotinylated RNA probes (20 fmol) were incubated for 30 min at room temperature with 200 nM of recombinant FUBP1 protein and resolved on a 5% native polyacrylamide gel. The arrow indicates bandshifted complexes. For the competition assay, an excess of unlabeled O-WT RNA probe (200 pmol) was added.



Coomassie blue staining of purified FUBP1 protein.

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