

## Product datasheet for **AP06673PU-M**

### **UBF1 (UBTF) Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500-1/1000. <b>Immunohistochemistry on paraffin sections:</b> 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 500-550 of Human UBF-1.
Specificity:	This antibody detects endogenous levels of UBF-1 protein. (region surrounding Glu536)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 90 kDa
Gene Name:	upstream binding transcription factor, RNA polymerase I
Database Link:	<a href="#">Entrez Gene 7343 Human P17480</a>



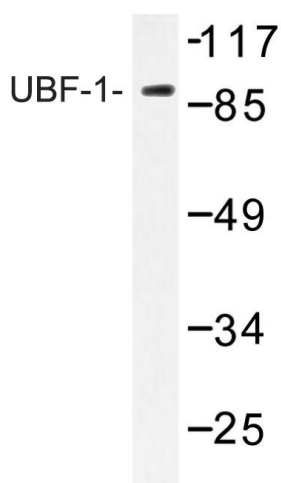
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**Background:**

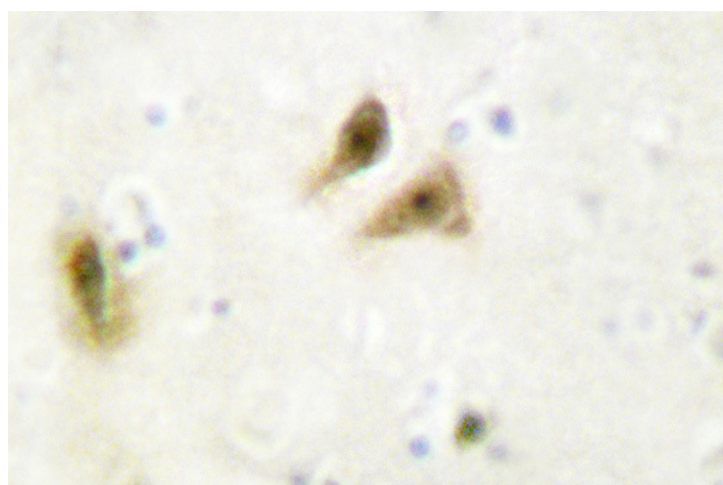
The transcription of ribosomal RNA genes by RNA polymerase I (Pol I) is tightly coordinated with the growth state of the cell. In addition to Pol I, transcription of ribosomal genes requires the trans-activating factor UBF (upstream binding factor). UBF functions by binding to DNA elements within the RNA gene promoter and enhancer regions and directly associating with Pol I, tethering it to the promoter complex. Two UBF proteins, of 97 kDa and 94 kDa, arise from the same gene as a result of alternative mRNA splicings. UBF activity is regulated by several dependent casein kinase II phosphorylates at the carboxy terminus of UBF on serine residues. The retinoblastoma susceptibility gene product, Rb, when not bound to E2F family members, inhibits UBF activity. Expression of RNA may also be negatively regulated by the 70 kDa and 86 kDa Ku antigens.

**Synonyms:**

Nucleolar transcription factor 1, Upstream-binding factor 1, UBF1, UBF-1, Autoantigen NOR-90

**Product images:**


Western blot (WB) analysis of UBF-1 Antibody in extracts from HeLa cells.



Immunohistochemistry (IHC) analyzes of UBF-1 Antibody in paraffin-embedded human brain tissue.