

# **UBTF Antibody (monoclonal) (M01)**

Mouse monoclonal antibody raised against a partial recombinant UBTF. Catalog # AT4452a

### **Product Information**

Application WB, IHC, IF, E
Primary Accession P17480
Other Accession NM\_014233
Reactivity Human
Host mouse
Clonality monoclonal
Isotype IgG2a Kappa

Clone Names 6B6 Calculated MW 89406

### **Additional Information**

**Gene ID** 7343

Other Names Nucleolar transcription factor 1, Autoantigen NOR-90, Upstream-binding

factor 1, UBF-1, UBTF, UBF, UBF1

**Target/Specificity** UBTF (NP\_055048, 551 a.a. ~ 650 a.a) partial recombinant protein with GST

tag. MW of the GST tag alone is 26 KDa.

**Dilution** WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200 E~~N/A

**Format** Clear, colorless solution in phosphate buffered saline, pH 7.2.

**Storage** Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions** UBTF Antibody (monoclonal) (M01) is for research use only and not for use in

diagnostic or therapeutic procedures.

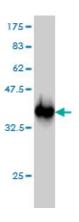
## **Background**

Upstream binding factor (UBF) is a transcription factor required for expression of the 18S, 5.8S, and 28S ribosomal RNAs, along with SL1 (a complex of TBP (MIM 600075) and multiple TBP-associated factors or 'TAFs'). Two UBF polypeptides, of 94 and 97 kD, exist in the human (Bell et al., 1988 [PubMed 3413483]). UBF is a nucleolar phosphoprotein with both DNA binding and transactivation domains. Sequence-specific DNA binding to the core and upstream control elements of the human rRNA promoter is mediated through several HMG boxes (Jantzen et al., 1990 [PubMed 2330041]).

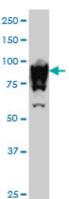
#### References

1.The maternal nucleolus plays a key role in centromere satellite maintenance during the oocyte to embryo transition. Fulka H, Langerova ADevelopment. 2014 Apr;141(8):1694-704. doi: 10.1242/dev.105940.2. Role of Ooplasm in Nuclear and Nucleolar Remodeling of Intergeneric Somatic Cell Nuclear Transfer Embryos during the First Cell Cycle. Ostrup O, Strejcek F, Petrovicova I, Lucas-Hahn A, Morovic M, Lemme E, Petersen B, Laurincikova N, Niemann H, Laurincik J, Hyttel P.Cell Reprogram. 2011 Apr;13(2):145-55.3. Nuclear and Nucleolar Reprogramming during the First Cell Cycle in Bovine Nuclear Transfer Embryos. Ostrup O, Petrovicova I, Strejcek F, Morovic M, Lucas-Hahn A, Lemme E, Petersen B, Niemann H, Laurincik J, Maddox-Hyttel P.Cloning Stem Cells. 2009 Sep;11(3):367-75.4. Nucleologenesis and embryonic genome activation are defective in interspecies cloned embryos between bovine ooplasm and rhesus monkey somatic cells. Song BS, Lee SH, Kim SU, Kim JS, Park JS, Kim CH, Chang KT, Han YM, Lee KK, Lee DS, Koo DB. BMC Dev Biol. 2009 Jul 28;9:44.

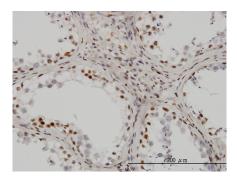
### **Images**



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa).

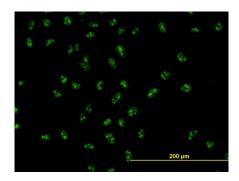


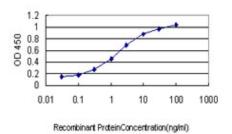
UBTF monoclonal antibody (M01), clone 6B6 Western Blot analysis of UBTF expression in Hela S3 NE ( (Cat # AT4452a )



Immunoperoxidase of monoclonal antibody to UBTF on formalin-fixed paraffin-embedded human testis. [antibody concentration 3 ug/ml]

Immunofluorescence of monoclonal antibody to UBTF on HeLa cell. [antibody concentration 10 ug/ml]





Detection limit for recombinant GST tagged UBTF is approximately 0.03ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.