

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.

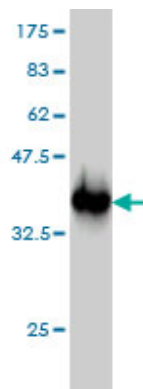
Background

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]).

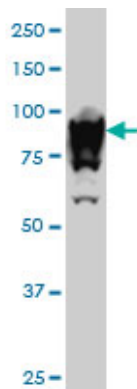
References

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.

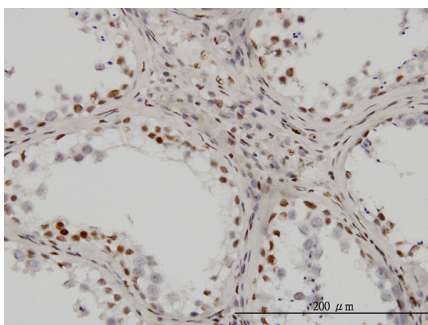
Images



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

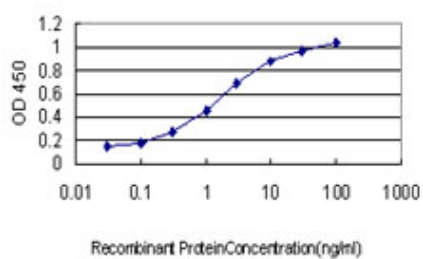
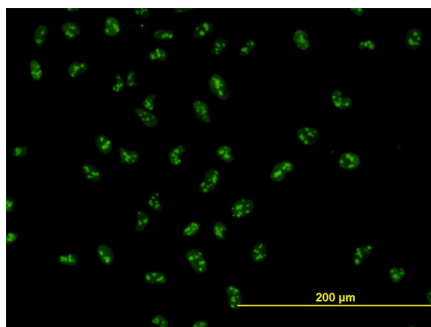


UBTF monoclonal antibody (M01), clone 6B6 Western Blot analysis of UBTF expression in HeLa S3 NE ((Cat # AT4452a)



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'.