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UBTF Antibody (monoclonal) (M04)

Mouse monoclonal antibody raised against a partial recombinant UBTF.
Catalog # AT4455a

Specification

UBTF Antibody (monoclonal) (M04) - Product Information

Application	**IF, WB, IHC, E**
Primary Accession	P17480
Other Accession	NM_014233
Reactivity	**Human, Mouse, Rat**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 Kappa**
Calculated MW	**89406**

UBTF Antibody (monoclonal) (M04) - 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

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) (M04) is for research use only and not for use in diagnostic or therapeutic procedures.

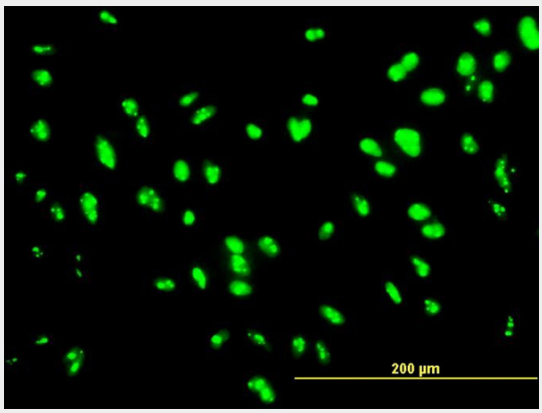
UBTF Antibody (monoclonal) (M04) - Protocols

Provided below are standard protocols that you may find useful for product applications.

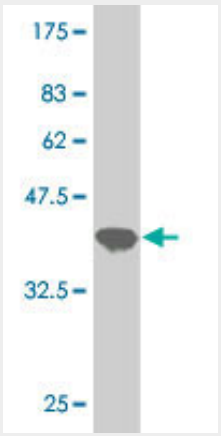
- Western Blot
- Blocking Peptides
- Dot Blot

- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

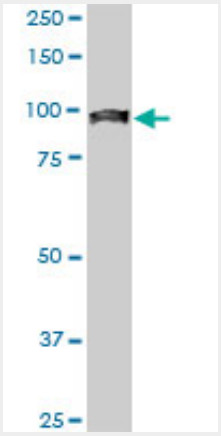
UBTF Antibody (monoclonal) (M04) - Images



Immunofluorescence of monoclonal antibody to UBTF on HepG2 cell. [antibody concentration 10 ug/ml]



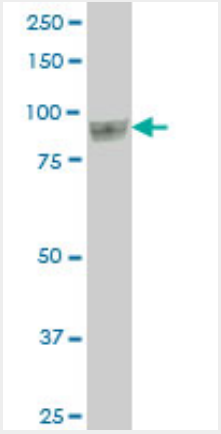
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .



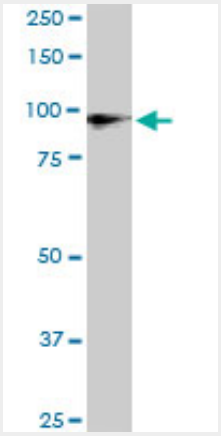
UBTF monoclonal antibody (M04), clone 2D8. Western Blot analysis of UBTF expression in

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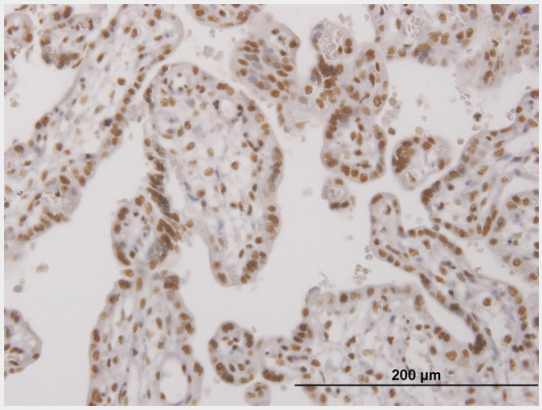
PC-12((Cat # AT4455a)



UBTF monoclonal antibody (M04), clone 2D8 Western Blot analysis of UBTF expression in HepG2 ((Cat # AT4455a)

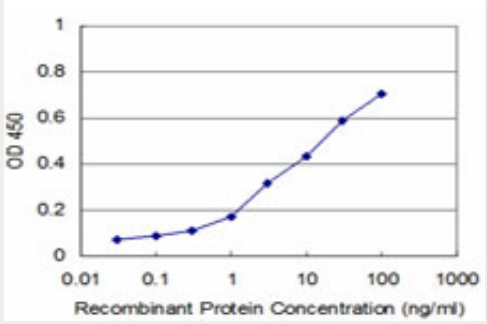


UBTF monoclonal antibody (M04), clone 2D8. Western Blot analysis of UBTF expression in NIH/3T3((Cat # AT4455a)



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

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Detection limit for recombinant GST tagged UBTF is approximately 1ng/ml as a capture antibody.

UBTF Antibody (monoclonal) (M04) - 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]).

UBTF Antibody (monoclonal) (M04) - References

Molecular mechanisms underlying nucleocytoplasmic shuttling of actinin-4. Kumeta M, et al. J Cell Sci, 2010 Apr 1. PMID 20197409.Transcriptional corepressor TLE1 functions with Runx2 in epigenetic repression of ribosomal RNA genes. Ali SA, et al. Proc Natl Acad Sci U S A, 2010 Mar 2. PMID 20160071.Treacle recruits RNA polymerase I complex to the nucleolus that is independent of UBF. Lin CI, et al. Biochem Biophys Res Commun, 2009 Aug 21. PMID 19527688.Temperature-induced partially unfolded state of hUBF HMG Box-5: conformational and dynamic investigations of the Box-5 thermal intermediate ensemble. Liu Z, et al. Proteins, 2009 Nov 1. PMID 19452555.Nucleolar localization of upstream binding factor in HeLa cells depends on rRNA synthesis activities. He J, et al. Folia Biol (Praha), 2008. PMID 19393134.