10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Mouse Monoclonal Antibody to TTF1

Purified Mouse Monoclonal Antibody
Catalog # AO2366a

Product Information

Application	WB, IHC, FC, ICC, E
Primary Accession	Q15361
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	2F4D8
Isotype	Mouse IgG1
Calculated MW	103051
Description	This gene encodes a transcription termination factor that is localized to the nucleolus and plays a critical role in ribosomal gene transcription. The encoded protein mediates the termination of RNA polymerase I transcription by binding to Sal box terminator elements downstream of pre-rRNA coding regions. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. This gene shares the symbol/alias 'TFF1' with another gene, NK2 homeobox 1, also known as thyroid transcription factor 1, which plays a role in the regulation of thyroid-specific gene expression.;
Immunogen	Purified recombinant fragment of human TTF1 (AA: 1-150) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide
Application Note	ELISA: 1/10000; WB: 1/500 - 1/2000; IHC: 1/200 - 1/1000; ICC: 1/200 - 1/1000; FCM: 1/200 - 1/400

Additional Information

Gene ID	7270
Other Names	TTF-1; TTF-I
Dilution	WB~~1:1000 IHC~~1:100~500 FC~~1:10~50 ICC~~N/A E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Mouse Monoclonal Antibody to TTF1 is for research use only and not for use in diagnostic or therapeutic procedures.

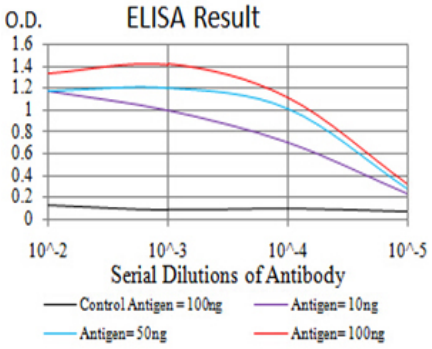
Protein Information

Name	TTF1
Function	Multifunctional nucleolar protein that terminates ribosomal gene transcription, mediates replication fork arrest and regulates RNA polymerase I transcription on chromatin. Plays a dual role in rDNA regulation, being involved in both activation and silencing of rDNA transcription. Interaction with BAZ2A/TIP5 recovers DNA-binding activity.
Cellular Location	Nucleus {ECO:0000250|UniProtKB:Q62187}. Nucleus, nucleolus {ECO:0000250|UniProtKB:Q62187}. Nucleus, nucleoplasm {ECO:0000250|UniProtKB:Q62187}. Note=May be localized to the nucleolus in an NPM1/B23-dependent manner. May be displaced from the nucleolus into the nucleoplasm in an CDKN2A/ARF-dependent manner. May shuttle back and forth from nucleoplasm to nucleolus {ECO:0000250|UniProtKB:Q62187}

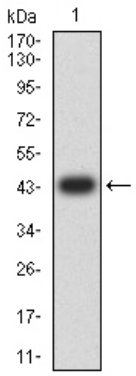
References

1.Tumour Biol. 2015 Sep;36(10):8085-92. ; 2.Chest. 2013 Oct;144(4):1199-206.;

Images

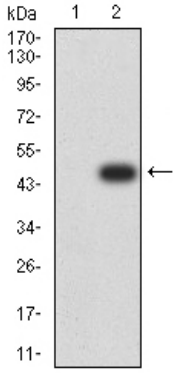


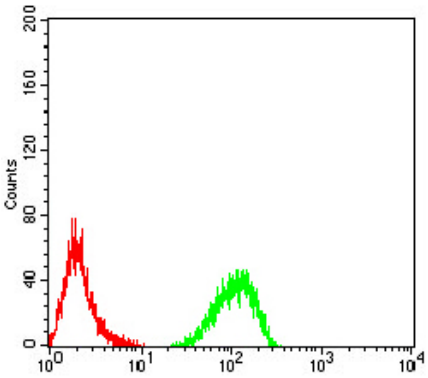
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



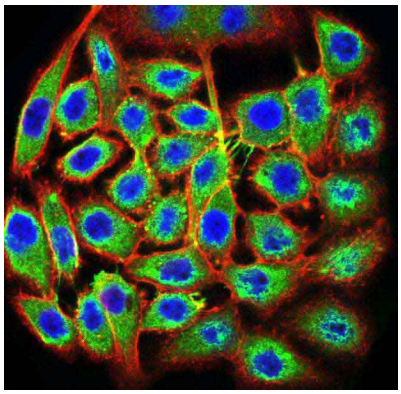
Western blot analysis using TTF1 mAb against human TTF1 (AA: 1-150) recombinant protein. (Expected MW is 43.5 kDa)

Western blot analysis using TTF1 mAb against HEK293 (1) and TTF1 (AA: 1-150)-hIgGFc transfected HEK293 (2) cell lysate.

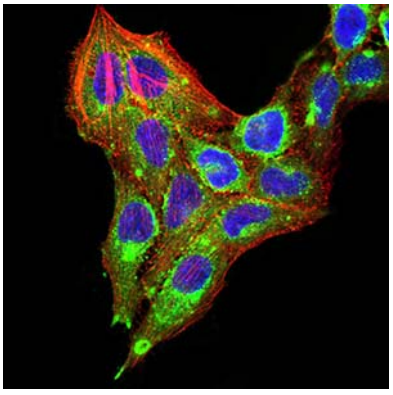




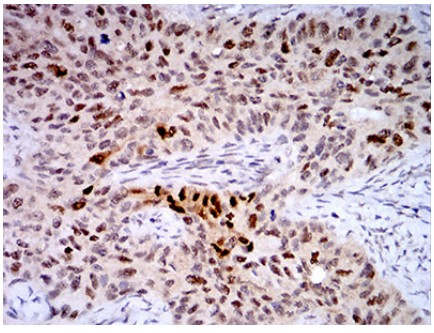
Flow cytometric analysis of Hela cells using TTF1 mouse mAb (green) and negative control (red).



Immunofluorescence analysis of MCF-7 cells using TTF1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. Secondary antibody from Fisher



Immunofluorescence analysis of SK-OV-3 cells using TTF1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. Secondary antibody from Fisher



Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using TTF1 mouse mAb with DAB staining.

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