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Mouse Monoclonal Antibody to TTF1
Purified Mouse Monoclonal Antibody
Catalog # AO2366a

Specification

Mouse Monoclonal Antibody to TTF1 - Product Information

Application	**WB, IHC, FC, ICC, E**
Primary Accession	Q15361
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse IgG1**
Calculated MW	**103kDa KDa**

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

Mouse Monoclonal Antibody to TTF1 - 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.

Mouse Monoclonal Antibody to TTF1 - 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.

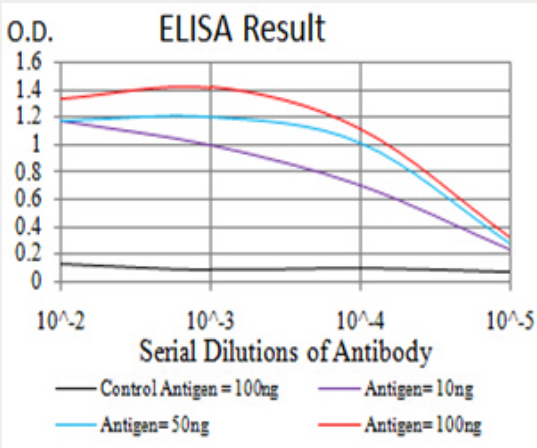
Cellular Location
Nucleus {ECO:0000250|UniProtKB:Q62187}. Nucleus, nucleolus {ECO:0000250|UniProtKB:Q62187}. Nucleus, nucleoplasm {ECO:0000250|UniProtKB:Q62187}. Note=May be localized to the nucleolus in an NPM1/B23-dependent manner. May be displaced from the nucleolus into the nucleoplasm in an CDKN2A/ARF-dependent manner. May shuttle back and forth from nucleoplasm to nucleolus {ECO:0000250|UniProtKB:Q62187}

Mouse Monoclonal Antibody to TTF1 - 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

Mouse Monoclonal Antibody to TTF1 - Images



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

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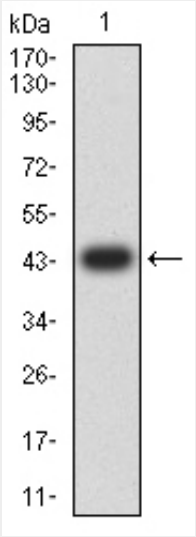
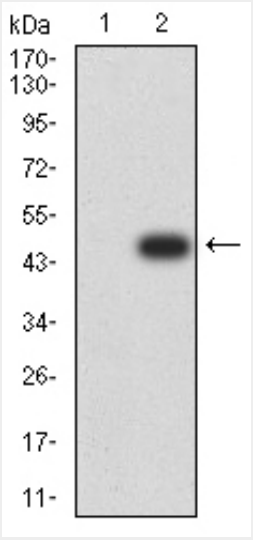
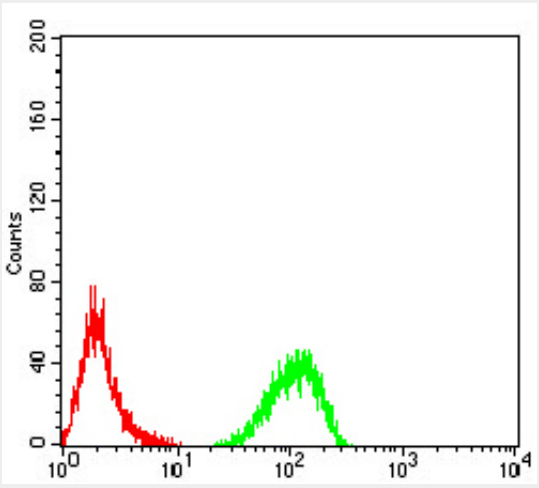


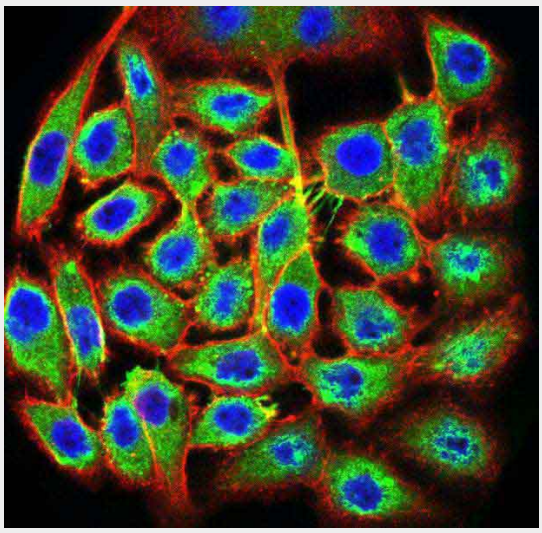
Western blot analysis using TTF1 mAb against human TTF1 (AA: 1-150) recombinant protein. (Expected MW is 43.5 kDa)



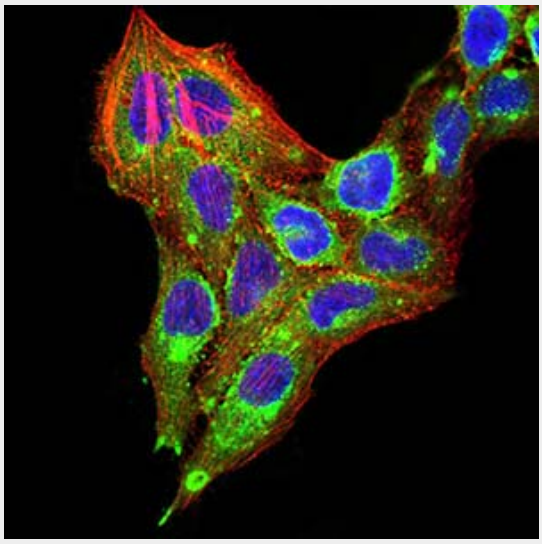
Western blot analysis using TTF1 mAb against HEK293 (1) and TTF1 (AA: 1-150)-hIgGFc transfected HEK293 (2) cell lysate.



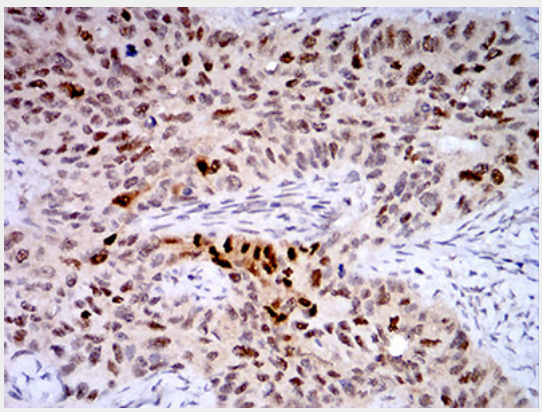
Flow cytometric analysis of Hela cells using TTF1 mouse mAb (green) and negative control (red).



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.

Mouse Monoclonal Antibody to TTF1 - References

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