

Rabbit TTF1 Monoclonal Antibody | anti-TTF1 antibody

Anti-TTF1 Rabbit Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA47049	Rabbit	Human, Mouse, Rat	Western Blot, Immunocytochemistry, Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

TTF1; Monoclonal Antibody; Anti-TTF1 Rabbit Monoclonal Antibody; Homeobox protein Nkx-2.1; Homeobox protein NK-2 homolog A; Thyroid nuclear factor 1; Thyroid transcription factor 1; TTF-1; Thyroid-specific enhancer-binding protein; T/EBP; NKX2-1; NKX2A; TITF1; anti-TTF1 antibody

PRODUCT SPECIFICATIONS

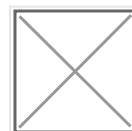
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Purity/Purification	Affinity-chromatography
Form/Format	Liquid
Sequence Length	401
Applicable Applications for anti-TTF1 antibody	WB (Western Blot), ICC (Immunocytochemistry), IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Immunogen	A synthesized peptide derived from human TTF1
Subcellular Localization	Nucleus.
Tissue Specificity	Thyroid and lung.
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



WB (Western Blot)

Western blot analysis of TTF1 expression in 293 cell lysate (AAA47049). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NKX2-1 monoclonal antibody overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for NKX2-1



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded human thyroid, using TTF1 Antibody(AAA47049)NKX2-1 was detected in paraffin-embedded tissue section. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-NKX2-1 Antibody (AAA47049) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-TTF1 antibody	Transcription factor that binds and activates the promoter of thyroid specific genes such as thyroglobulin, thyroperoxidase, and thyrotropin receptor. Crucial in the maintenance of the thyroid differentiation phenotype. May play a role in lung development and surfactant homeostasis. Forms a regulatory loop with GRHL2 that coordinates lung epithelial cell morphogenesis and differentiation. Activates the transcription of GNRHR and plays a role in enhancing the circadian oscillation of its gene expression. Represses the transcription of the circadian transcriptional repressor NR1D1 (By similarity).
Product Categories/Family for anti-TTF1 antibody	Epigenetics and Nuclear Signaling; Transcription; Other factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	118766339
NCBI GeneID	7080
NCBI Accession #	NP_001073136.1
NCBI GenBank Nucleotide #	NM_001079668.2
UniProt Accession #	P43699; O14954; O14955; Q7KZF6; Q9BRJ8; D3DSA3
Molecular Weight	38596 MW
NCBI Official Full Name	homeobox protein Nkx-2.1 isoform 1
NCBI Official Synonym Full Names	NK2 homeobox 1
NCBI Official Symbol	NKX2-1
NCBI Official Synonym Symbols	BCH; BHC; NK-2; TEBP; TTF1; NKX2A; NMTC1; T/EBP; TITF1; TTF-1; NKX2.1
NCBI Protein Information	homeobox protein Nkx-2.1
UniProt Protein Name	Homeobox protein Nkx-2.1
UniProt Gene Name	NKX2-1
UniProt Synonym Gene Names	TTF-1; T/EBP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/ttf1-antibody-western-blot-immunocytochemistry-immunohistochemistry-immunofluorescence-flow-cytometry-elisa/47049>