SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-TTF1/NKX2-1 antibody

Catalog Number: SLM-60241R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Clone No.:	F4D11
Target:	TTF1/NKX2-1
Immunogen:	KLH conjugated synthetic peptide derived from human TTF1
Purification:	Affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 WB=1:500-2000 Flow-Cyt=1μg/Test ICC/IF=1:50-200 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat
Predicted MW.:	38kDa
Subcellular Location:	The nucleus
Background:	This gene encodes a protein initially identified as a thyroid-specific transcription factor. The encoded protein binds to the thyroglobulin promoter and regulates the expression of thyroid-specific genes but has also been shown to regulate the expression of genes involved in morphogenesis. Mutations and deletions in this gene are associated with benign hereditary chorea, choreoathetosis, congenital hypothyroidism, and neonatal respiratory distress, and may be associated with thyroid cancer. Multiple transcript variants encoding different isoforms have been found for this gene. This gene shares the symbol/alias 'TFF1' with another gene, transcription termination factor 1,

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	which plays a role in ribosomal gene transcription. [provided by RefSeq, Apr 2011] **SWISS:** P43699 **Gene ID:** 7080 A transcription factor that binds to and activates the promoters of thyroid-specific genes (such as thyroglobulin, thyroid peroxidase, and thyrotropin receptor); essential for maintaining the thyroid differentiation phenotype; may play a role in lung development and surfactant homeostasis; forms a regulatory loop with GRHL2 that regulates the morphogenesis and differentiation of lung epithelial cells; inhibits transcription of the circadian clock transcriptional repressor NR1D1, etc.

[VALIDATION IMAGES]

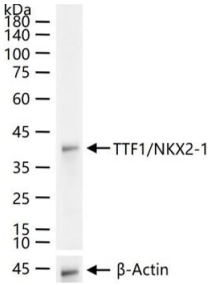


Figure 1. 25 ug total protein per lane of various lysates (see on figure) probed with TTF1/NKX2-1 monoclonal antibody, unconjugated (SLM-60241R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min

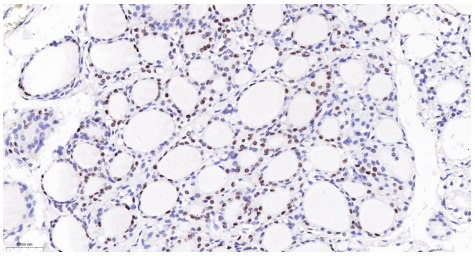


Figure 2. Paraformaldehyde-fixed, paraffin embedded Rat Thyroid Gland; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with TTF1/NKX2-1 Monoclonal Antibody, Unconjugated(SLM-60241R) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

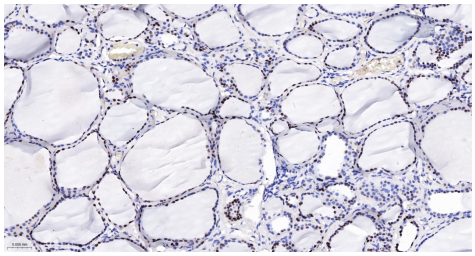


Figure 3. Paraformaldehyde-fixed, paraffin embedded Human Thyroid Gland; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with TTF1/NKX2-1 Monoclonal Antibody, Unconjugated(SLM-60241R) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

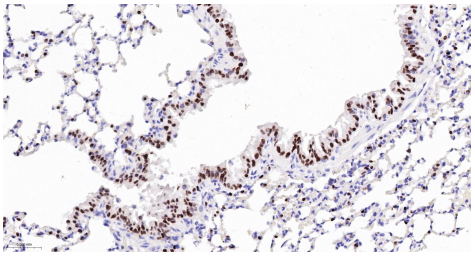


Figure 4. Paraformaldehyde-fixed, paraffin embedded Mouse Lung; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with TTF1/NKX2-1 Monoclonal Antibody, Unconjugated(SLM-60241R) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

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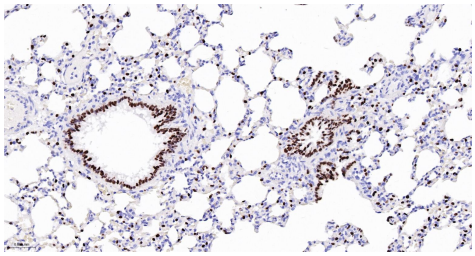


Figure 5. Paraformaldehyde-fixed, paraffin embedded Rat Lung; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with TTF1/NKX2-1 Monoclonal Antibody, Unconjugated(SLM-60241R) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

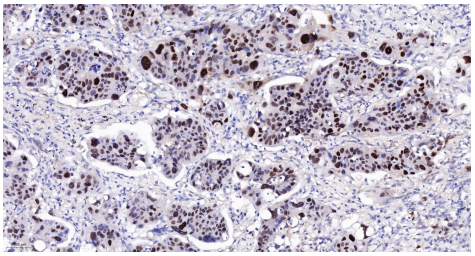


Figure 6. Paraformaldehyde-fixed, paraffin embedded Human Lung Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with TTF1/NKX2-1 Monoclonal Antibody, Unconjugated(SLM-60241R) at 1:500 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

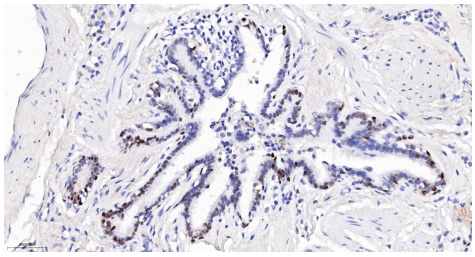


Figure 7. Paraformaldehyde-fixed, paraffin embedded Human Lung; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with TF1/NKX2-1 Monoclonal Antibody, Unconjugated (SLM-60241R) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

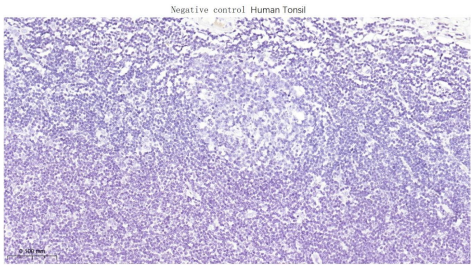


Figure 8. (Negative control) Paraformaldehyde-fixed, paraffin embedded Human Tonsil; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with TTF1/NKX2-1 Monoclonal Antibody, Unconjugated(SLM-60241R) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

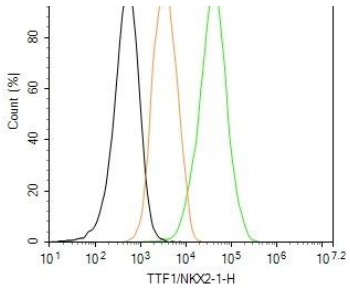


Figure 9. The TT (H) cells were fixed with 4% PFA (10 min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C,the cells then were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.), followed by secondary antibody incubation for 40 min at room temperature. Primary Antibody (green):Rabbit Anti-TTF1/NKX2-1 antibody (SLM-60241R): 1 µg/10^6 cells; Isotype Control (orange): Rabbit IgG (SL0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed

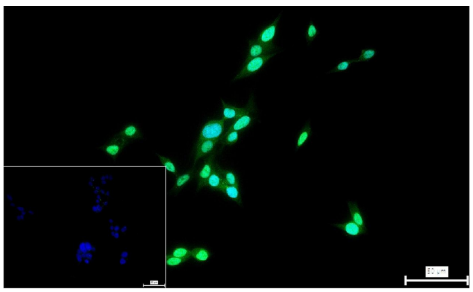


Figure 10. 4% Paraformaldehyde-fixed TT (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (TTF1/NKX2-1) monoclonal Antibody, unconjugated (SLM-60241R) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, SL40295G-FITC) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control

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