

NKX2-1 antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22398a**Specification**

NKX2-1 antibody - Product Information

Application	WB,E
Primary Accession	P43699
Predicted	Human, Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit Ig
Calculated MW	38596

NKX2-1 antibody - Additional Information**Gene ID** 7080**Other Names**

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 ([HGNC:11825](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=11825)), NKX2A, TITF1, TTF1

Target/Specificity

This antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between amino acids from human.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

NKX2-1 antibody is for research use only and not for use in diagnostic or therapeutic procedures.

NKX2-1 antibody - Protein Information**Name** NKX2-1 ([HGNC:11825](#))**Synonyms** NKX2A, TITF1, TTF1

Function 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).

Cellular Location

Nucleus {ECO:0000250|UniProtKB:P50220}.

Tissue Location

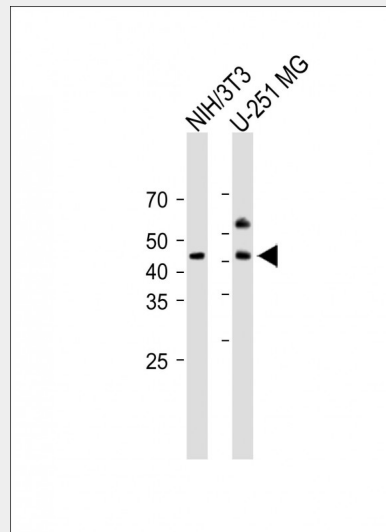
Thyroid and lung.

NKX2-1 antibody - Protocols

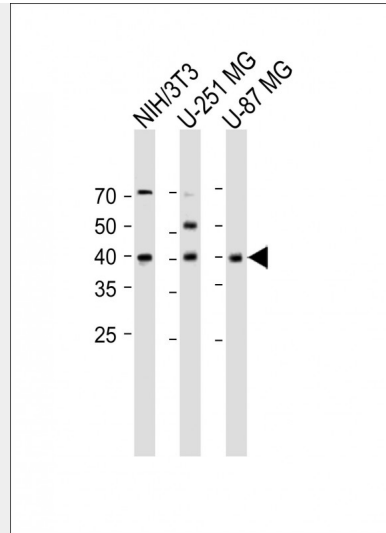
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

NKX2-1 antibody - Images



All lanes: Anti-NKX2-1 antibody at 1:1000 dilution Lane 1: NIH/3T3 cell lysate Lane 2: U-251 MG cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 40 kDa Blocking/Dilution buffer: 5% NFD/MTBST.



All lanes: Anti-NKX2-1 antibody at 1:1000 dilution Lane 1: NIH/3T3 cell lysate Lane 2: U-251 MG cell lysate Lane 3: U-87 MG cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 40 kDa Blocking/Dilution buffer: 5% NFDm/TBST.

NKX2-1 antibody - Background

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).

NKX2-1 antibody - References

- Oguchi H.,et al.Biochim. Biophys. Acta 1261:304-306(1995).
- Saiardi A.,et al.Biochim. Biophys. Acta 1261:307-310(1995).
- Ikeda K.,et al.J. Biol. Chem. 270:8108-8114(1995).
- Hamdan H.,et al.Biochim. Biophys. Acta 1396:336-348(1998).
- Endo T.,et al.Submitted (MAY-1995) to the EMBL/GenBank/DDBJ databases.