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

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), 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}.

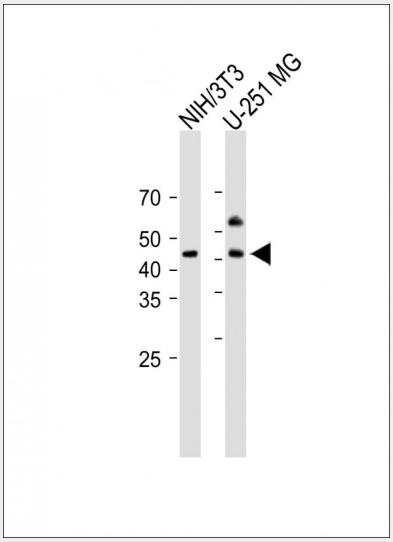
Tissue Location
Thyroid and lung.

NKX2-1 antibody - Protocols

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

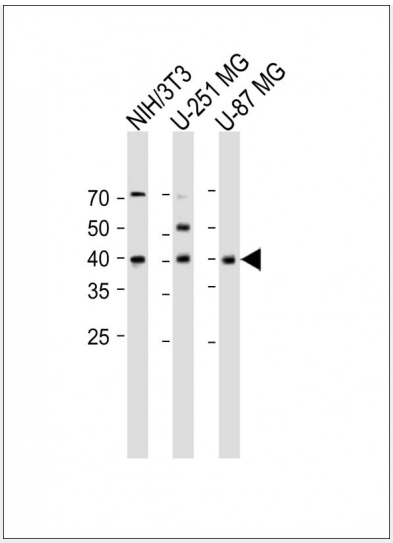
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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% NFDM/TBST.

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



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.