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NKX2-1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP17825c

Specification

NKX2-1 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	P43699
Other Accession	Q9EQM3, Q9H2Z4, P23441, P50220, NP_003308.1
Reactivity	**Human**
Predicted	**Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**38596**
Antigen Region	**2-1**

NKX2-1 Antibody (Center) - Additional Information

Gene ID 7080

Other Names
Homeobox protein Nkx-21, 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, TTF1

Target/Specificity
This NKX2-1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 197-226 amino acids from the Central region of human NKX2-1.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

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 (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

NKX2-1 Antibody (Center) - Protein Information

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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}.

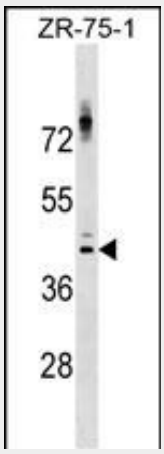
Tissue Location
Thyroid and lung.

NKX2-1 Antibody (Center) - 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 (Center) - Images



NKX2-1 Antibody (Center) (Cat. #AP17825c) western blot analysis in ZR-75-1 cell line lysates (35ug/lane).This demonstrates the NKX2-1 antibody detected the NKX2-1 protein (arrow).

NKX2-1 Antibody (Center) - Background

This gene encodes a protein initially identified as a thyroid-specific transcription factor. The encoded protein binds to

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.

NKX2-1 Antibody (Center) - References

Kim, J.H., et al. Acta Cytol. 54(3):277-282(2010)
Xu, B., et al. Appl. Immunohistochem. Mol. Morphol. 18(3):244-249(2010)
Narumi, S., et al. J. Clin. Endocrinol. Metab. 95(4):1981-1985(2010)
Guillot, L., et al. Hum. Mutat. 31 (2), E1146-E1162 (2010) :
Cantara, S., et al. Thyroid Res 3 (1), 4 (2010) :