

**NKX2-1 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17825c****Specification**

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**NKX2-1 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P43699</a>
Other Accession	<a href="#">O9EQM3</a> , <a href="#">O9H2Z4</a> , <a href="#">P23441</a> , <a href="#">P50220</a> , <a href="#">NP_003308.1</a>
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**

**Name** NKX2-1 ([HGNC:11825](#))

**Synonyms** NKX2A, TTF1, 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**

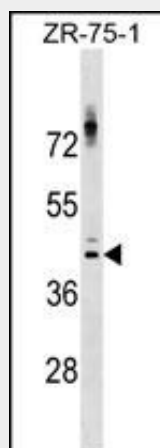
Thyroid and lung.

**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 Cytometry](#)
- [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) :