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NKX2-1 antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22398a

Product Information

Application	WB, E
Primary Accession	P43699
Reactivity	Human
Predicted	Human, Mouse, Rat, Bovine, Canine
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit Ig
Clone Names	R01795
Calculated MW	38596

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 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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.

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.

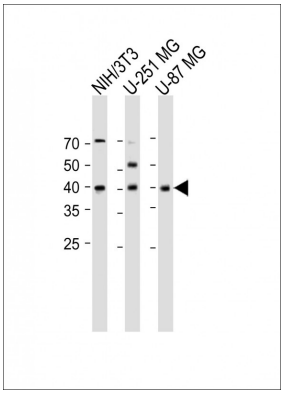
Background

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).

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.

Images



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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.