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Thyroid Transcription Factor 1 Rabbit mAb

Catalog # AP76212

Product Information

Application	WB, IHC-P
Primary Accession	P43699
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	38596

Additional Information

Gene ID	7080
Other Names	NKX2-1
Dilution	WB~~1:500-1:1000 IHC-P~~N/A
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

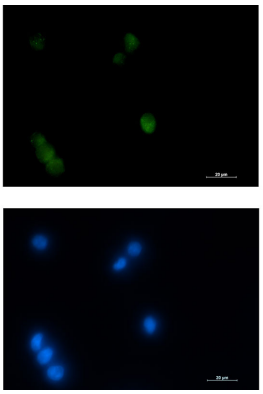
Protein Information

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.

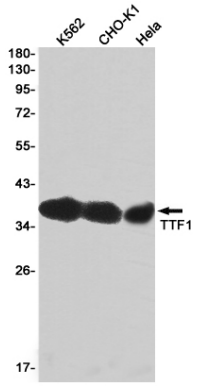
Background

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

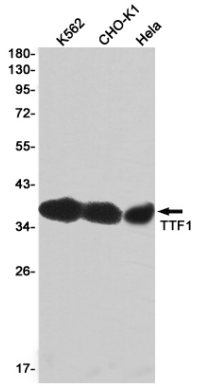
Images



Immunocytochemistry analysis of Thyroid Transcription Factor 1 (green) in K562 using Thyroid Transcription Factor 1 antibody,and DAPI(blue).



Western blot analysis of TTF1 in K562, CHO-K1, Hela lysates using TTF1 antibody.



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