

For Research Use Only

# TTF1; NKX2-1 Polyclonal antibody

Catalog Number: 21777-1-AP **3 Publications**



## Basic Information

<b>Catalog Number:</b> 21777-1-AP	<b>GenBank Accession Number:</b> NM_003317	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 450 ug/ml by Nanodrop and 313 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 7080	<b>Recommended Dilutions:</b> WB 1:500-1:2000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P43699	
<b>Isotype:</b> IgG	<b>Full Name:</b> NK2 homeobox 1	
	<b>Calculated MW:</b> 42 kDa	
	<b>Observed MW:</b> 45-50 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : HeLa cells, mouse lung tissue, rat brain tissue, A549 cells, mouse brain tissue
<b>Cited Applications:</b> WB, IP	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse	

## Background Information

NKX2-1, also named as NKX2A, TTF1 and TTF1, belongs to the NK-2 homeobox family. It is a transcription factor that binds and activates the promoter of thyroid specific genes such as thyroglobulin, thyroperoxidase, and thyrotropin receptor. NKX2-1 is crucial in the maintenance of the thyroid differentiation phenotype. It may play a role in lung development and surfactant homeostasis. Defects in NKX2-1 are the cause of benign hereditary chorea (BHC), choreoathetosis, hypothyroidism, and neonatal respiratory distress (CHNRD). The antibody is specific to NKX2-1.

## Notable Publications

Author	Pubmed ID	Journal	Application
Qi Xu	36341965	Environ Toxicol Pharmacol	WB
Shuangjun He	39730036	Environ Pollut	WB
Simeng Wang	39514336	Cancer Res	IP

## Storage

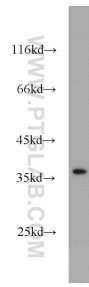
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 21777-1-AP (NIKX2-1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.