



# Rabbit Anti-Human TTF1 Monoclonal Antibody, clone CQ7180 (CABT-Z244R)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Immunogen</b>	Synthetic peptide corresponding to residues within aa50-150 of TTF-1 was used as an immunogen.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Clone</b>	CQ7180
<b>Purification</b>	ProA affinity purified IgG.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	IHC-P Recommended concentration: IHC-P: 1:100-1:200
<b>Molecular Weight</b>	39 kDa
<b>Cellular Localization</b>	Nucleus
<b>Positive Control</b>	Thyroid
<b>Format</b>	Liquid
<b>Concentration</b>	Lot specific
<b>Size</b>	100 µl

<b>Buffer</b>	PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.
<b>Preservative</b>	0.01% Sodium azide
<b>Storage</b>	Store at -20 °C. Avoid freeze/thaw cycles.
<b>Ship</b>	Wet ice

## BACKGROUND

<b>Introduction</b>	Thyroid transcription factor-1 (synonyms: Homeobox protein Nkx-2.1) is a 371 amino acid protein, 39 KDa, which belongs to the NKX homeobox transcription factor family. TTF-1 stimulate or repress transcription of particular genes by binding to their regulatory sequences. TTF-1 plays a role in regulating genes in the thyroid, lung and brain. Its molecular targets in the thyroid gland are thyroglobulin, thyroperoxidase and thyrotropin receptor. TTF-1 activates transcription of the genes encoding these proteins. In lung, TTF-1 promotes the transcription of the surfactant proteins A to D, and the Clara cell secretory protein. In brain, the molecular targets of TTF-1 are unknown. Besides being a tissue-specific transcription promoter in adult organs, TTF-1 has been suggested a role in morphogenesis and cytodifferentiation. Among thyroid neoplasms, TTF1 is seen in virtually all tumours of follicular derivation. In diagnostic pathology, TTF-1 is useful as marker for pulmonary adenocarcinoma and pulmonary neuroendocrine malignancy, including small cell lung carcinoma. It can be used to differentiate primary lung adenocarcinoma from metastasis of extrapulmonary origin.
<b>Keywords</b>	TTF1; transcription termination factor, RNA polymerase I; transcription termination factor 1; TTF1; TTF-I

## GENE INFORMATION

<b>Gene Name</b>	TTF1
<b>Entrez Gene ID</b>	<a href="#">7080</a>
<b>UniProt ID</b>	<a href="#">P43699</a>