

TTF-1 Recombinant antibody

Cat:B32066R

Company: Haokebio

Uniprot ID:P43699

Applications: IHC:1:100-1:200

Organism:Rabbit

IHC-Polymer:1:400-1:800

Species reactivity:Human

TSA:1:500-1:1000

Background:

TTF-1 (thyroid transcription factor-1, also known as homeobox protein Nkx-2.1) is a protein containing 371 amino acids, with a molecular weight of approximately 39 KDa, and belongs to the NKX homeobox transcription factor family. TTF-1 exerts its function by binding to the regulatory sequences of specific genes to stimulate or inhibit their transcription. TTF-1 plays a role in regulating genes in the thyroid gland, lungs, and brain. Its molecular targets in the thyroid gland are thyroglobulin, thyroid peroxidase, and thyroid-stimulating hormone receptor; TTF-1 activates the transcription of genes encoding these proteins. In the lungs, TTF-1 promotes the transcription of surfactant proteins A to D and Clara cell secretory protein. In the brain, its molecular targets remain unknown. In addition to serving as a tissue-specific transcriptional activator in adult organs, TTF-1 is also thought to play a role in morphogenesis and cell differentiation. Among thyroid tumors, TTF-1 is detectable in nearly all follicular-derived tumors. In diagnostic pathology, TTF-1 can be used as a marker for lung adenocarcinoma and pulmonary neuroendocrine malignancies, including small cell lung cancer. Furthermore, TTF-1 is applicable for distinguishing primary lung adenocarcinomas from metastatic carcinomas.

Protein full name:

NK2 homeobox 1

Synonyms:

TTF1, TTF1; NKX2-1, BHC, Homeobox protein Nkx 2.1, Homeobox protein Nkx-2.1

Immunogen:

Peptide

Isotype:

IgG

Subcellular location:

Nucleus

Purity:

Affinity purification

Form:

Liquid

Storage Buffer:

PBS with 0.02% sodium azide, 100 µg/ml BSA and 50% glycerol.

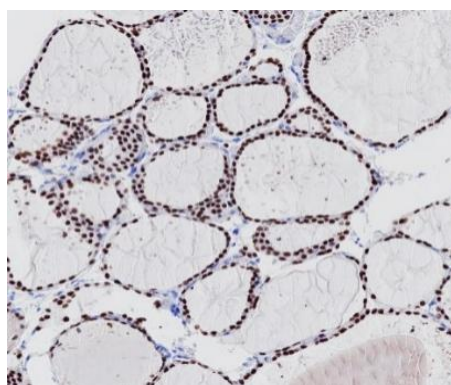
Storage:

Store at -20 °C for one year.

Experimental procedure:

Antigen retrieval: Citrate buffer (pH 9.0), Medium high heat for 8 minutes, stop for 7 minutes, medium high heat for 8 minutes. Incubate antibody, 4°C overnight. Secondary antibody: Poly-HRP Goat Anti-Rabbit & Mouse Universal Secondary Antibody, RT, 1h.

Images:



Sample: Human thyroid tissue, 4% PFA 12-24h

Source of Reagents:

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发表[英文论文]请标注:TTF-1(B32066R) were kindly provided by Hangzhou Haoke Biotechnology Co., Ltd.

