

# Recombinant Human NK2 Homeobox 1

**Cat. No.** NKX2-1-226H    **Lot. No.** (See product label)

## SPECIFICATION

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>                    | Recombinant human TTF-1 protein expressed in <i>E. coli</i> encodes 138-286 amino acids and has a molecular mass of 41 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>                             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>                              | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>                         | TTF-1 (Thyroid transcription factor-1) is a member of the NKx2 family of homeodomain transcription factors. It is expressed in epithelial cells of the thyroid gland and the lung. Nuclei from liver, stomach, pancreas, small intestine, colon, kidney, breast, skin, testes, pituitary, prostate, and adrenal glands are unreactive. TTF-1 is detected in primary lung adenocarcinomas and small cell carcinomas and is absent in colon and breast carcinomas. Staining with TTF-1 antibody is useful for distinguishing between tumors of lung and non-lung origin. |
| <b>Formulation</b>                         | 100µg purified human TTF-1 protein at 0.1mg/ml in 50mM Tris-Acetate, pH7.5, 1mM EDTA and 20% Glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Application And Suggested Dilutions</b> | •ELISA •Inhibition Assays •Western Blotting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Characterization</b>                    | On SDS-PAGE commassie blue stained gel, the purified recombinant protein shows a band at 41 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Activity</b>                            | Not known.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Storage & Stability**

Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months.

**GENE INFORMATION**
**Gene Name**

NKX2-1 NK2 homeobox 1 [ Homo sapiens ]

**Synonyms**

NKX2-1; NK2 homeobox 1; BCH; BHC; NK-2; TEBP; TTF1; NKX2A; TITF1; TTF-1; NKX2.1; thyroid transcription factor 1; NK-2 homolog A; Homeobox protein NK-2 homolog A; Thyroid nuclear factor 1; Thyroid transcription factor 1; thyroid nuclear factor; benign chorea

**Gene ID**

7080

**mRNA Refseq**

NM\_001079668

**Protein Refseq**

NP\_001073136

**MIM**

600635

**UniProt ID**

P43699

**Chromosome  
Location**

14q13

**Function**

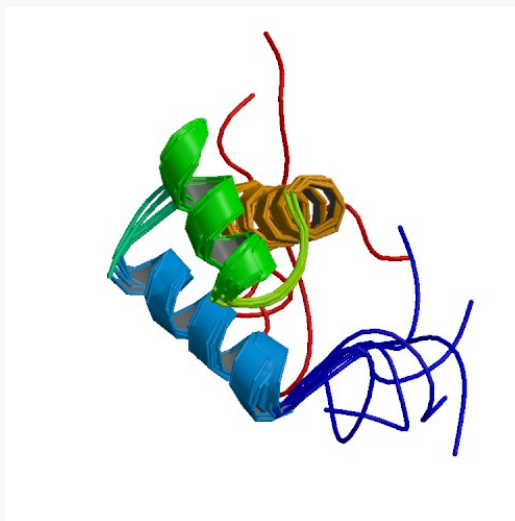
RNA polymerase II transcription factor activity, enhancer binding; promoter binding; protein binding; specific RNA polymerase II transcription factor activity; transcription activator activity

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

PDB rendering based  
on 1ftt.



Tel: 1-631-559-9269 1-516-512-3133

Email: [info@creative-biomart.com](mailto:info@creative-biomart.com) Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA