abcam

## Product datasheet

# Recombinant Human TTF1 protein ab159708

1 Image

### Description

| | |
|---|---|
| **Product name** | Recombinant Human TTF1 protein |
| **Expression system** | Wheat germ |
| **Protein length** | Full length protein |
| **Animal free** | No |
| **Nature** | Recombinant |
| **Species** | Human |
| **Sequence** | MSMSPKHTTPFSVSDILSPLEESYKKVGMEGGGLGAPLA AYRQGQAAPPT AAMQQHAVGHHGAVTAAYHMTAAGVPQLSHSAVGGYCN GNLGNMSELPPY QDTMRNSASGPGWYGANPDPRFPAISRFMGPASGMNMS GMGGLGSLGDVS KNMAPLPSAPRRKRRVLFSQAQVYELERRFKQQKYLSAP EREHLASMIHL TPTQVKIWFQNHRYKMKRQAKDKAAQQQLQQDSGGGGG GGGTGCPQQQQA QQQSPRRVAVPVLVKDGKPCQAGAPAPGAASLQGHAQ QQAQHQAQAAQAA AAAISVGSGGAGLGAHPGHQPGSAGQSPDLAHHAASPA ALQGQVSSLSHL NSSGSDYGTMSCSTLLYGRTW |
| **Amino acids** | 1 to 371 |
| **Tags** | GST tag N-Terminus |

### Specifications

Our Abpromise guarantee covers the use of **ab159708** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| | |
|---|---|
| **Applications** | ELISA |
| | Western blot |
| **Form** | Liquid |
| **Additional notes** | |

## Preparation and Storage

**Stability and Storage**

Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles.

pH: 8.00
Constituents: 0.31% Glutathione, 0.79% Tris HCl

## General Info

**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.

**Tissue specificity**

Thyroid and lung.

**Involvement in disease**

Defects in NKX2-1 are the cause of benign hereditary chorea (BHC) [MIM:118700]; also known as hereditary chorea without dementia. BHC is an autosomal dominant movement disorder. The early onset of symptoms (usully before the age of 5) and the observation that in some BHC families the symptoms tend to decrease in adulthood suggests that the disorder results from a developmental disturbance of the brain. BHC is non-progressive and patients have normal or slightly below normal intelligence. There is considerable inter- and intrafamilial variability, including dysarthria, axial distonia and gait disturbances.
Defects in NKX2-1 are the cause of choreoathetosis, hypothyroidism, and neonatal respiratory distress (CHNRD) [MIM:610978]. This syndrome include neurological, thyroid, and respiratory problems.

**Sequence similarities**

Belongs to the NK-2 homeobox family.
Contains 1 homeobox DNA-binding domain.

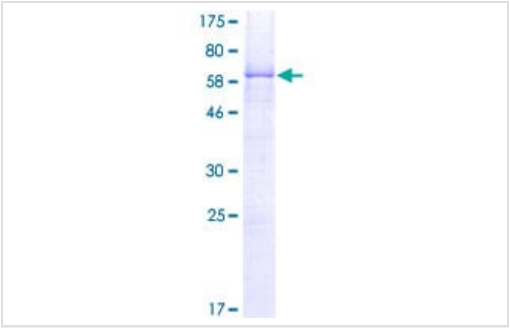
**Post-translational modifications**

Phosphorylated on serine residues.

**Cellular localization**

Nucleus.

## Images




SDS-PAGE - Recombinant Human TTF1 protein (ab159708)

ab159708 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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