

Recombinant Human NKX2-1 Protein, GST-tagged

Cat. No. NKX2-1-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NKX2-1 (1-371) protein with a N-terminal GST-tag was expressed in Wheat Germ(in vitro).
Species	Human
Source	Wheat Germ
ProteinLength	1-371
Description	This gene encodes a protein initially identified as a thyroid-specific transcription factor. The encoded protein binds to the thyroglobulin promoter and regulates the expression of thyroid-specific genes but has also been shown to regulate the expression of genes involved in morphogenesis. Mutations and deletions in this gene are associated with benign hereditary chorea, choreoathetosis, congenital hypothyroidism, and neonatal respiratory distress, and may be associated with thyroid cancer. Multiple transcript variants encoding different isoforms have been found for this gene. This gene shares the symbol/alias 'TTF1' with another gene, transcription termination factor 1, which plays a role in ribosomal gene transcription.
Molecular Mass	65 kDa
AA Sequence	MSMSPKHTTFFSVSDILSPLEESYKKVGMEGGGLGAPLAAYRQGQAAPPTAAMQQ HAVGHHGAVTAAYHMTAAGVPQLSHSAVGGYCNGNLGNMSELPPYQDTMRNSAS GPGWYGANPDPRFPAISRFMGPASGMNMSGMGGLGSLGDVSKNMAPLPSAPRRK RRVLFSQAQVYELERRFKQQKYL SAPEREHLASMIHLTPTQVKIWFQN HRYKMKRQ

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AKDKAAQQQLQQDSGGGGGGGGTGCPQQQQAQQQSPRRVAVPVLVKDGKPCQA
GAPAPGAASLQGHAAQQQAQHQAQAAQAAAAAISVGSGGAGLGAHPGHQPGSAGQ
SPDLAHHAASPAALQGQVSSLSHLNSSGSDYGTMSCSTLLYGRTW

Applications

AP, Array, ELISA, WB-Re

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer

Warning

Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

GENE INFORMATION

Gene Name

NKX2-1 NK2 homeobox 1 [*Homo sapiens* (human)]

Official Symbol

NKX2-1

Synonyms

NKX2-1; NK2 homeobox 1; BCH; BHC; NK-2; TEBP; TTF1; NKX2A; NMTC1; T/EBP; TITF1; TTF-1; NKX2.1; homeobox protein Nkx-2.1; NK-2 homolog A; homeobox protein NK-2 homolog A; thyroid nuclear factor 1; thyroid transcription factor 1; thyroid-specific enhancer-binding protein

Gene ID

7080

mRNA Refseq

NM_001079668

Protein Refseq

NP_001073136

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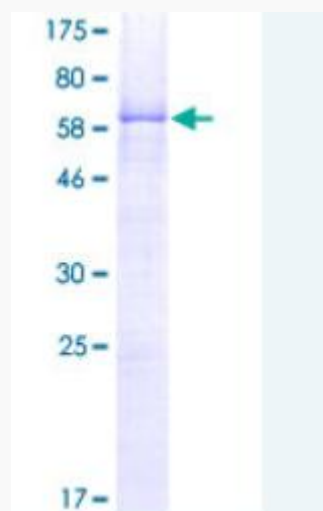
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MIM 600635

UniProt ID P43699

SDS-PAGE Analysis
of NKX2-1



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