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	MSMSPKHTTPFSVSDILSPLEESYKKVGMEGGGLGAPLAAYRQGQAAPPTAAMQQ HAVGHHGAVTAAYHMTAAGVPQLSHSAVGGYCNGNLGNMSELPPYQDTMRNSAS GPGWYGANPDPRFPAISRFMGPASGMNMSGMGGLGSLGDVSKNMAPLPSAPRRK RRVLFSQAQVYELERRFKQQKYLSAPEREHLASMIHLTPTQVKIWFQNHRYKMKRQ

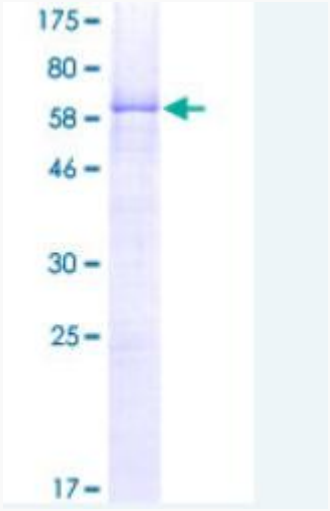
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45-1 Ramsey Road, Shirley, NY 11967, USA

	AKDKAAQQQLQQDSGGGGGGGGTGCPQQQQAQQQSPRRVAVPVLVKDGKPCQA GAPAPGAASLQGHAQQQAQHQAQAAQAAAAAISVGSGGAGLGAHPGHQPGSAGQ 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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MIM	600635
UniProt ID	P43699
SDS-PAGE Analysis of NKX2-1	

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