

Recombinant Human NKX2-1 Protein, His&GST-tagged

Cat. No. NKX2-1-384H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human NKX2-1 Protein (Ala40-Pro111) with N-His&GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ala40-Pro111
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 37.4 kDa Accurate Molecular Mass: 41 kDa
Purity	> 80%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	100mM NaHCO ₃ , 500mM NaCl, pH8.3, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

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_003317
Protein Refseq	NP_003308

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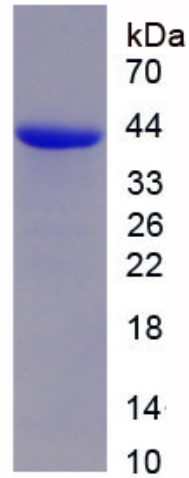
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MIM 600635

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