



Recombinant Human Homeobox protein Nkx-2.1 (NKX2-1)

Product Code	CSB-EP015841HU-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P43699
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	MSMSPKHTTP FSVSDILSPL EESYKKVGM E GGGLGAPLAA YRQGQAAPPT AAMQQHAVGH HGA VTAAYHM TAAGVPQLSH SAVGGYCNGN LGNMSELPPY QDTMRNSASG PGWYGANPDP RFP AISRFMG PASGMNMSGM GGLGSLGDVS KNMAPLPSAP RRKRRVLF SQ AQVYELERRF KQK KYLSAPE REHLASMIHL TPTQVKIWFQ NHRYKMKRQA KDKAAQQQLQ QDSGGGGGGG GTGCPQQQQA QQSPRRVAV PVLVKDGKPC QAGAPAGAA SLQGHAAQQQA QHQAQAQA AA AISVGS GG AGLGAHPGHQ PGSAGQSPDL AHHAASPAAL QGQVSSLSHL NSSGSDYGTM SCSTLLYGRT W
Source	E.coli
Target Names	NKX2-1
Protein Names	Recommended name: Homeobox protein Nkx-2.1 Alternative name(s): Homeobox protein NK-2 homolog A Thyroid nuclear factor 1 Thyroid transcription factor 1 Short name= TTF-1
Expression Region	1-371
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	This gene encodes a protein initially identified as a thyroid-specific transcription factor. The encoded protein binds to 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.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final



concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.