

NKX2-1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP17825c**Specification**

NKX2-1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [P43699](#)**NKX2-1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 7080**Other Names**

Homeobox protein Nkx-21, Homeobox protein NK-2 homolog A, Thyroid nuclear factor 1, Thyroid transcription factor 1, TTF-1, Thyroid-specific enhancer-binding protein, T/EBP, NKX2-1, NKX2A, TITF1, TTF1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NKX2-1 Antibody (Center) Blocking Peptide - Protein Information**Name** NKX2-1 ([HGNC:11825](#))**Synonyms** NKX2A, TITF1, TTF1**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. Forms a regulatory loop with GRHL2 that coordinates lung epithelial cell morphogenesis and differentiation. Activates the transcription of GNRHR and plays a role in enhancing the circadian oscillation of its gene expression. Represses the transcription of the circadian transcriptional repressor NR1D1 (By similarity).

Cellular Location

Nucleus {ECO:0000250|UniProtKB:P50220}.

Tissue Location

Thyroid and lung.

NKX2-1 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

NKX2-1 Antibody (Center) Blocking Peptide - Images

NKX2-1 Antibody (Center) Blocking Peptide - Background

This gene encodes a protein initially identified as athyroid-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.

NKX2-1 Antibody (Center) Blocking Peptide - References

Kim, J.H., et al. Acta Cytol. 54(3):277-282(2010) Xu, B., et al. Appl. Immunohistochem. Mol. Morphol. 18(3):244-249(2010) Narumi, S., et al. J. Clin. Endocrinol. Metab. 95(4):1981-1985(2010) Guillot, L., et al. Hum. Mutat. 31 (2), E1146-E1162 (2010) : Cantara, S., et al. Thyroid Res 3 (1), 4 (2010) :