10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# KD-Validated Anti-NK2 Homeobox 1 Rabbit Monoclonal Antibody

**Rabbit monoclonal antibody**
**Catalog # AGI1889**

## Specification

### KD-Validated Anti-NK2 Homeobox 1 Rabbit Monoclonal Antibody - Product Information

| | |
|---|---|
| Application | **WB, FC** |
| Primary Accession | P43699 |
| Reactivity | **Human** |
| Clonality | **Monoclonal** |
| Isotype | **Rabbit IgG** |
| Calculated MW | **Predicted, 39 kDa, observed, 42 kDa KDa** |
| Gene Name | **NKX2-1** |
| Aliases | **NKX2-1; NK2 Homeobox 1; TTF-1; TTF1; Thyroid Transcription Factor 1; NKX2A; TITF1; Thyroid-Specific Enhancer-Binding Protein; Homeobox Protein NK-2 Homolog A; Homeobox Protein Nkx-2.1; Thyroid Nuclear Factor 1; T/EBP; BCH; NK-2 Homolog A; Benign Chorea; NKX2.1; NMTC1; NK-2; TEBP; BHC** |
| Immunogen | **A synthesized peptide derived from human TTF1** |

### KD-Validated Anti-NK2 Homeobox 1 Rabbit Monoclonal Antibody - Additional Information

| | |
|---|---|
| Gene ID | **7080** |

**Other Names**
Homeobox protein Nkx-2.1, 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 (<a href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=11825" target="_blank">HGNC:11825</a>), NKX2A, TITF1, TTF1

### KD-Validated Anti-NK2 Homeobox 1 Rabbit Monoclonal Antibody - 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}.

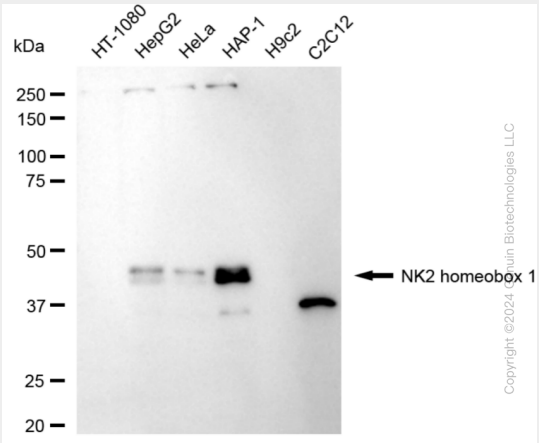
**Tissue Location**
Thyroid and lung.

## KD-Validated Anti-NK2 Homeobox 1 Rabbit Monoclonal Antibody - Protocols

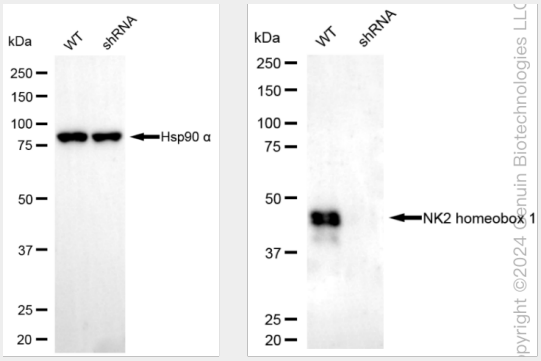
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## KD-Validated Anti-NK2 Homeobox 1 Rabbit Monoclonal Antibody - Images



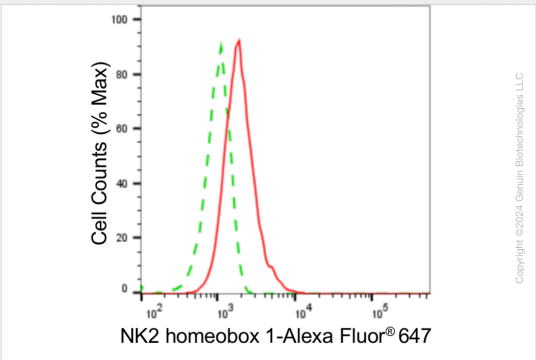

Western blotting analysis using anti-NK2 homeobox 1 antibody (Cat#AGI1889). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-NK2 homeobox 1 antibody (Cat#AGI1889, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.




Western blotting analysis using anti-NK2 homeobox 1 antibody (Cat#AGI1889). NK2 homeobox 1 expression in wild type (WT) and NK2 homeobox 1 (NKX2-1) shRNA knockdown (KD) HeLa cells

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-NK2 homeobox 1 antibody (Cat#AGI1889, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.




Flow cytometric analysis of NK2 homeobox 1 expression in HAP-1 cells using anti-NK2 homeobox 1 antibody (Cat#AGI1889, 1:2,000). Green, isotype control; red, NK2 homeobox 1.