

Human TTF-1/NKX2-1 Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2054B Catalog Number: MAB9458

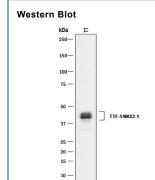
DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human TTF-1/NKX2-1 in direct ELISAs.	
Source	Recombinant Monoclonal Rabbit IgG Clone # 2054B	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	E. coli-derived recombinant human TTF-1/NKX2-1 Ala40-Pro111 Accession # P43699	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.	

APPLICATIONS

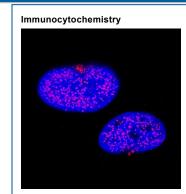
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below
Immunocytochemistry	3-25 μg/mL	See Below

DATA



Detection of Human TTF-1/NKX2-1 by Western Blot. Western blot shows lysates of TT human medullary thyroid cancer cell line. PVDF membrane was probed with 1 µg/mL of Rabbit Anti-Human TTF-1/NKX2-1 Monoclonal Antibody (Catalog # MAB9458) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). Specific bands were detected for TTF-1/NKX2-1 at approximately 40-45 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.



TTF-1/NKX2-1 in A549 Human Cell Line.
TTF-1/NKX2-1 was detected in immersion fixed A549 human lung carcinoma cell line using Rabbit Anti-Human TTF-1/NKX21 Monoclonal Antibody (Catalog # MAB9458) at 3 µg/mL for 3 hours at room temperature.
Cells were stained using the
NorthernLights™ 557-conjugated Anti-Rabbit IgG Secondary Antibody (red;
Catalog # NL004) and counterstained with
DAPI (blue). Specific staining was localized to nuclei. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

NK2 homeobox 1 (NKX2-1), also known as thyroid transcription factor 1 (TTF-1), is a 371 amino acids (aa) protein encoded by the NKX2-1 gene. Expression of NKX2-1 transcription factor is the earliest indication of the establishment of respiratory progenitors as well as thyroid epithelium in the ventral foregut endoderm. NKX2-1 is critical for the expression of many pulmonary specific genes, including surfactant proteins SP-A, -B, and -C, as well as thyroid specific genes that are important in the maintenance of the thyroid differentiation phenotype.

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