

Anti-Homeobox protein Nkx-2.1 NKX2-1 Antibody

Catalog Number: A01322

About NKX2-1

NKX2-1 (NK2 homeobox 1) has been identified as a thyroid-specific transcription factor that binds and activates the promoter of thyroid specific genes such as thyroglobulin and thyrotropin receptor. NKX2-1 is crucial in the maintenance of the thyroid differentiation phenotype and morphogenesis. It contains one homeobox DNA-binding domain. NKX2-1 also may play a role in lung development and surfactant homeostasis. Mutations and deletions in this gene are associated with benign hereditary chorea, congenital hypothyroidism, neonatal respiratory distress, and may be associated with thyroid cancer. NKX2-1 has been suggested to be a candidate suppressor of malignant progression.

Overview

Product Name	Anti-Homeobox protein Nkx-2.1 NKX2-1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Homeobox protein Nkx-2.1 NKX2-1 Antibody (Catalog # A01322). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	NKX2-1 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	NKX2-1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	P43699

Technical Details

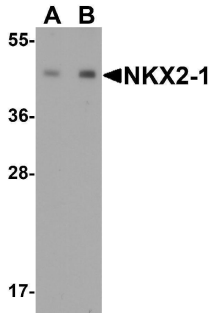
Immunogen	NKX2-1 antibody was raised against a 16 amino acid synthetic peptide near the amino terminus of human NKX2-1. The immunogen is located within the first 50 amino acids of NKX2-1.
Predicted Reactive Species	Rat
Cross Reactivity	NKX2-1 antibody is predicted to not cross-react with other NK2 homeobox family members. At least three isoforms of NKX2-1 are known to exist; this antibody will detect all three.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	NKX2-1 Antibody is affinity chromatography purified via peptide column.

Suggested Dilutions

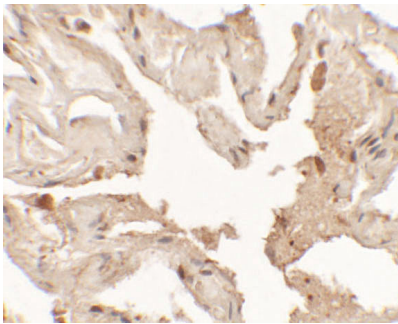
NKX2-1 antibody can be used for detection of NKX2-1 by Western blot at 0.25 – 0.5 ug/mL. Antibody can also be used for immunohistochemistry starting at 2.5 ug/mL. For immunofluorescence start at 20 ug/mL.

Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

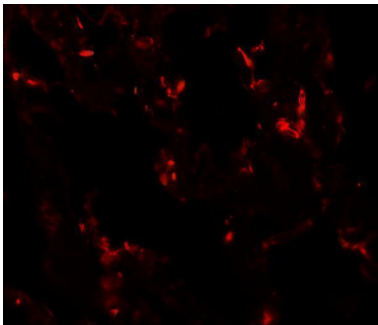
Anti-Homeobox protein Nkx-2.1 NKX2-1 Antibody (A01322) Images



Western blot analysis of NKX2-1 expression in human lung tissue lysate with NKX2-1 antibody at (A) 0.25 and (B) 0.5 ug/ml.



Immunohistochemistry of NKX2-1 in human lung tissue with NKX2-1 antibody at 2.5 ug/mL.



Immunofluorescence of NKX2-1 in human lung tissue with NKX2-1 antibody at 20 ug/mL.

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