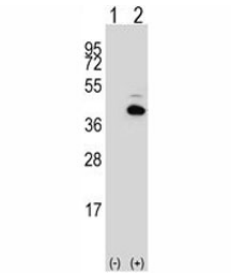
PITX1 Antibody / Developmental Transcription Factor Antibody (F50319)

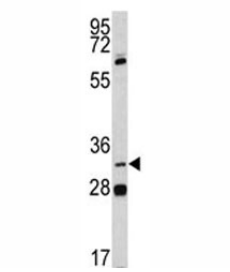
Catalog No.	Formulation	Size
F50319-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F50319-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

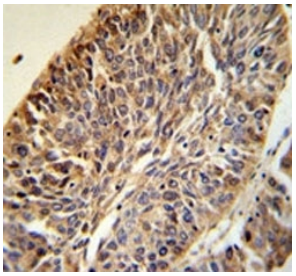
Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Mouse, Rat, Chicken, Zebrafish, Xenopus, Drosophila, C. elegans
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	P78337
Applications	Western blot: 1:1000 IHC (Paraffin): 1:50-1:100 Flow Cytometry: 1:10-1:50
Limitations	This PITX1 Antibody / Developmental Transcription Factor Antibody is available for research use only.



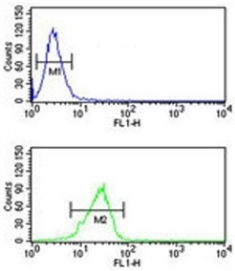
PITX1 Antibody Transfected Cell WB. Western blot testing of human 293 cell lysates with PITX1 Antibody. Lane 1: non-transfected 293 cell lysate; Lane 2: 293 cells transiently transfected with the PITX1 gene. A specific band was detected at approximately 34 kDa in PITX1-transfected cells, consistent with the predicted molecular weight of PITX1. PITX1 Antibody / Developmental Transcription Factor Antibody supports detection of pituitary homeobox 1 expression and studies of homeobox proteins, transcriptional regulation, developmental biology and gene expression pathways.



PITX1 Antibody Human Lung Cancer Cell WB. Western blot testing of human NCI-H460 cell lysate with PITX1 Antibody. A specific band was detected at approximately 34 kDa, consistent with the predicted molecular weight of PITX1. PITX1 Antibody / Developmental Transcription Factor Antibody supports detection of pituitary homeobox 1 expression and studies of homeobox transcription factors, developmental gene regulation, cellular differentiation and cancer biology pathways.



PITX1 Antibody Human Lung Cancer Cell WB. Western blot testing of human NCI-H460 cell lysate with PITX1 Antibody. A specific band was detected at approximately 34 kDa, consistent with the predicted molecular weight of PITX1. PITX1 Antibody / Developmental Transcription Factor Antibody supports detection of pituitary homeobox 1 expression and studies of homeobox transcription factors, developmental gene regulation, cellular differentiation and cancer biology pathways.



PITX1 Antibody NCI-H460 Cell FACS. Flow cytometry testing of human NCI-H460 lung cancer cells with PITX1 Antibody. Cells were incubated with PITX1 antibody, followed by FITC-conjugated goat anti-rabbit IgG secondary antibody detection. Blue: negative control; Green: PITX1 antibody. PITX1 Antibody / Developmental Transcription Factor Antibody demonstrates increased fluorescence intensity consistent with PITX1 expression and supports studies of pituitary homeobox 1, transcription factor regulation, developmental biology and cancer-associated gene expression pathways.

Description

PITX1 Antibody / Developmental Transcription Factor Antibody detects pituitary homeobox 1, a paired-like homeodomain transcription factor involved in embryonic development, tissue patterning and regulation of gene expression. PITX1 is a nuclear protein that binds DNA through its conserved homeobox domain and regulates transcriptional programs controlling cellular differentiation and developmental processes. As a member of the PITX family of transcription factors, PITX1 has important roles in pituitary development, hindlimb formation and organ-specific gene regulation.

PITX1 functions as a sequence-specific transcription regulator that influences developmental pathways through activation or repression of target genes. During embryogenesis, PITX1 contributes to tissue identity and structural patterning, including regulation of genes involved in limb development and anterior pituitary function. PITX1 Antibody provides researchers with a tool for studying expression patterns and biological pathways associated with this developmental transcription factor.

Beyond normal development, PITX1 is studied in cancer biology because altered transcription factor expression can influence cellular growth, differentiation and tumor-associated pathways. PITX1 has been investigated in multiple cancer research models, where changes in expression or regulation may affect gene networks involved in cell behavior. The study of PITX1 contributes to broader understanding of how developmental transcription programs are modified in disease-related biological systems.

Homeobox transcription factors are essential regulators of cell fate decisions and tissue organization. Research involving PITX1 provides insight into nuclear signaling mechanisms, transcriptional regulation and developmental biology. Detection of PITX1 expression allows researchers to examine how this transcription factor contributes to both normal physiological processes and experimental disease models.

PITX1 Antibody applications include detection of PITX1 protein expression and localization using techniques such as Western blot, immunohistochemistry, immunofluorescence and related protein analysis methods. NSJ Bioreagents

provides PITX1 Antibody / Developmental Transcription Factor Antibody for researchers studying homeobox proteins, developmental regulation, gene expression and transcription factor biology.

PITX1 Antibody detects a homeobox protein involved in developmental regulation, cell differentiation and gene expression, making it a useful marker for research areas featured in our Transcription Factor Antibodies page.

Application Notes

Titration of the PITX1 Antibody / Developmental Transcription Factor Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 123-150 from the human protein was used as the immunogen for this PITX1 antibody.

Storage

Aliquot the PITX1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

Pituitary Homeobox 1 Antibody, Homeobox Protein PITX1 Antibody, Paired Like Homeodomain Protein Antibody, BFT Antibody, PTX1 Antibody, Homeobox Transcription Factor Antibody

Copyright © NSJ Bioreagents. All rights reserved.