

Anti-NKX2.2 Antibody

Mouse Monoclonal Antibody Catalog # AH13411

Specification

Anti-NKX2.2 Antibody - Product Information

Application IHC-P, IF, FC
Primary Accession O95096
Other Accession 516922
Reactivity Human
Host Mouse
Clonality Monoclonal

Isotype Mouse / IgG1, kappa

Calculated MW 30133

Anti-NKX2.2 Antibody - Additional Information

Gene ID 4821

Other Names

Homeobox protein NK-2 homolog B, NK2 transcription factor like protein B, NK2 transcription factor related locus 2, NKX22, Nkx2b, tinman

Application Note

IHC-P~~N/A<br \> IF~~1:50~200<br \> FC~~1:10~50

Format

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage

Store at 2 to 8°C. Antibody is stable for 24 months.

Precautions

Anti-NKX2.2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-NKX2.2 Antibody - Protein Information

Name NKX2-2

Synonyms NKX2.2, NKX2B

Function

Transcriptional activator involved in the development of insulin-producting beta cells in the endocrine pancreas (By similarity). May also be involved in specifying diencephalic neuromeric boundaries, and in controlling the expression of genes that play a role in axonal guidance. Binds to



elements within the NEUROD1 promoter (By similarity).

Cellular Location

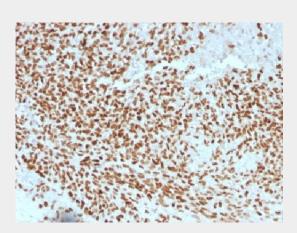
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00108}.

Anti-NKX2.2 Antibody - Protocols

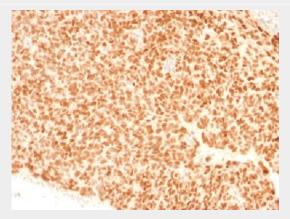
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-NKX2.2 Antibody - Images



Formalin-fixed, paraffin-embedded human Ewing sarcoma stained with NKX2.2 Monoclonal Antibody (NX2/1523).



Formalin-fixed, paraffin-embedded human Ewing sarcoma stained with NKX2.2 Monoclonal Antibody (NX2/1523).

Anti-NKX2.2 Antibody - Background

Expression of NKX2.2 has been found in neuroendocrine tumors of the gut, making it a potential





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marker for the study of gastrointestinal neuroendocrine tumors. More recently, NKX2.2 protein was identified as a target of EWS-FLI-1, the fusion protein specific to Ewing sarcoma, and was shown to be differentially upregulated in Ewing sarcoma on the basis of array-based gene expression analysis. It acts as a valuable marker for Ewing sarcoma, with a sensitivity of 93% and a specificity of 89%, and aids in the differential diagnosis of small round cell tumors.