

# Anti-NKX2.2 Antibody

Mouse Monoclonal Antibody

Catalog # AH13413

## Product Information

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<b>Application</b>	IHC-P, IF, FC
<b>Primary Accession</b>	<a href="#">O95096</a>
<b>Other Accession</b>	<a href="#">516922</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	Mouse / IgG1, kappa
<b>Clone Names</b>	NX2/1524
<b>Calculated MW</b>	30133

## Additional Information

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<b>Gene ID</b>	4821
<b>Other Names</b>	Homeobox protein NK-2 homolog B, NK2 transcription factor like protein B, NK2 transcription factor related locus 2, NKX22, Nkx2b, tinman
<b>Application Note</b>	Flow Cytometry (0.5-1ug/million cells); Immunofluorescence (1-2ug/ml); ,Immunohistology (Formalin-fixed) (1-2ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.
<b>Format</b>	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.
<b>Storage</b>	Store at 2 to 8°C.Antibody is stable for 24 months.
<b>Precautions</b>	Anti-NKX2.2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	NKX2-2
<b>Synonyms</b>	NKX2.2, NKX2B
<b>Function</b>	Transcriptional activator involved in the development of insulin-producing 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}.

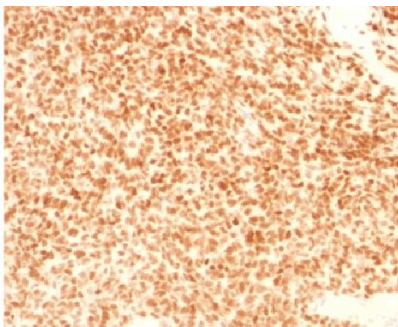
## Background

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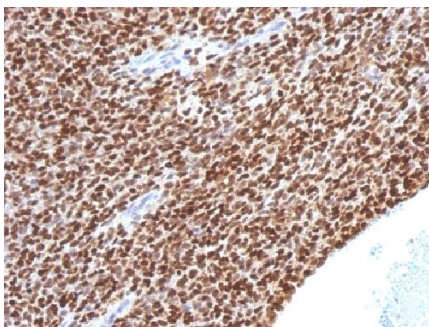
Expression of NKX2.2 has been found in neuroendocrine tumors of the gut, making it a potential marker for the study of gastrointestinal neuroendocrine tumors. More recently, NKX2.2 protein was identified as a target of EWS-FLI-1, the fusion protein specific to Ewing sarcoma, and was shown to be differentially 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.

## Images

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Formalin-fixed, paraffin-embedded human Ewing Sarcoma stained with NKX2.2 Monoclonal Antibody (NX2/1524).



Formalin-fixed, paraffin-embedded human Ewing Sarcoma stained with NKX2.2 Monoclonal Antibody (NX2/1524).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.