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# Anti-NKX2.2 Antibody

Recombinant Mouse Monoclonal Antibody
Catalog # AH13415

## Product Information

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| **Application** | IHC-P, IF, FC |
| **Primary Accession** | O95096 |
| **Other Accession** | 516922 |
| **Reactivity** | Human, Mouse, Rat, Chicken |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype** | Mouse / IgG2b, kappa |
| **Clone Names** | rNX2/294 |
| **Calculated MW** | 30133 |

## Additional Information

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| **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** | Flow Cytometry (0.5-1ug/million cells); Immunofluorescence (1-2ug/ml); ,Immunohistology (Formalin-fixed) (0.5-1ug/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. |
| **Format** | 200ug/ml of recombinant MAb purified 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. |

## Protein Information

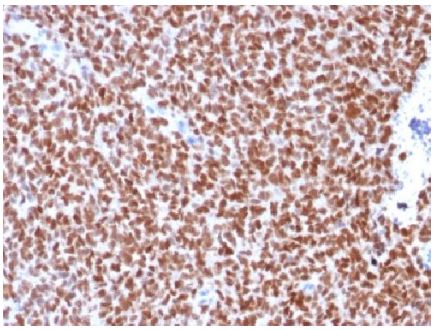
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| **Name** | NKX2-2 |
| **Synonyms** | NKX2.2, NKX2B |
| **Function** | Transcriptional activator involved in the development of insulin-producing beta cells in the endocrine pancreas (By similarity). May also be involved in specifying diencephalic neuromeric boundaries, and in controlling the |

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| | 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

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



Formalin-fixed, paraffin-embedded human Ewing □s Sarcoma stained with NKX2.2 Recombinant Mouse Monoclonal Antibody (rNX2/294).

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