10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

NKX2.2 (Neuroendocrine & Ewing Sarcoma Marker) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone SPM564]
Catalog # AH10640

Product Information

Application	IF, FC, IHC-P
Primary Accession	O95096
Other Accession	4821, 516922
Reactivity	Human, Mouse, Chicken
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG2b, kappa
Clone Names	SPM564
Calculated MW	30133

Additional Information

Gene ID	4821
Other Names	Homeobox protein Nkx-2.2, Homeobox protein NK-2 homolog B, NKX2-2, NKX2.2, NKX2B
Application Note	IF~~1:50~200 FC~~1:10~50 IHC-P~~N/A
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	NKX2.2 (Neuroendocrine & Ewing Sarcoma Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

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 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}.

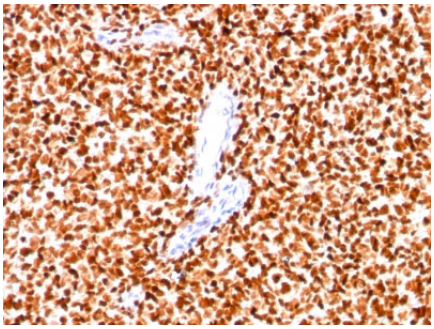
Background

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.

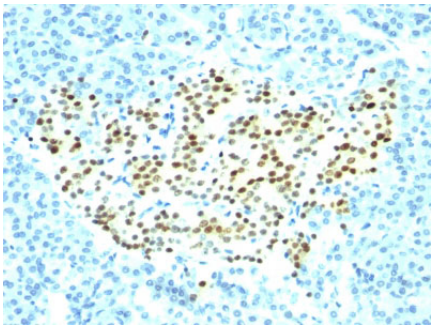
References

Wang, Y.C. et al. (2009) Endocr Relat Cancer 16, 267-79. | Yoshida A et. al. Am J Surg Pathol. 2012;36(7):993-9

Images



Formalin-fixed paraffin-embedded human Ewing □s sarcoma stained with NKX2.2 Monoclonal Antibody (SPM564).



Formalin-fixed paraffin-embedded human Pancreas stained with NKX2.2 Monoclonal Antibody (SPM564).

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