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DATA SHEET

Rabbit Anti-NKX2.2 [MD269R]: RM0154, RM0154RTU7

Intended Use: For Research Use Only

Description: Belongs to the NK-2 homeobox family. Contains 1 homeobox DNA-binding domain. May be involved in specifying diencephalic neuromeric boundaries, and in controlling the expression of genes that play a role in axonal guidance. 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.

Specifications

Clone:	MD269R
Source:	Rabbit
Isotype:	IgG
Reactivity:	Human
Immunogen:	Recombinant human NKX2.2 protein fragment aa1-119
Localization:	Nucleus
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC

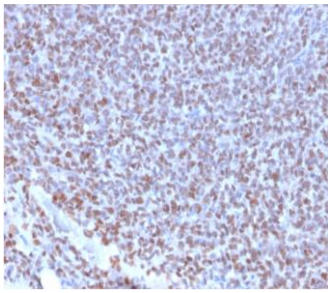
Package:

Description	Catalog No.	Size
NKX2.2 Concentrated	RM0154	1 ml
NKX2.2 Prediluted	RM0154RTU7	7 ml

IHC Procedure*

Positive Control Tissue:	Pancreas, Ewing sarcoma
Concentrated Dilution:	50-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human Ewing's Sarcoma stained with anti-NKX2.2 using DAB

References:

1. The combination of CD99 and NKX2.2, a transcriptional target of EWSR1-FLI1, is highly specific for the diagnosis of Ewing sarcoma. Shibuya R, et al. Virchows Arch. Nov;465(5):599-605, 2014.
2. NKX2.2 is a useful immunohistochemical marker for Ewing sarcoma. Yoshida A, et al. Am J Surg Pathol. Jul;36(7):993-9, 2012.
3. Homeodomain transcription factor NKX2.2 functions in immature cells to control enteroendocrine differentiation and is expressed in gastrointestinal neuroendocrine tumors. Wang YC, et al. Endocr Relat Cancer. Mar;16(1):267-79, 2009.

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