

Rabbit Anti-NKX2.2 [EP336]: RM0385RTU7

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. NKX2.2, a homeodomain-containing transcription factor containing DNA-binding, transcriptional activation and repression domains, is a member of the NK2 family of homeobox genes. NKX2.2 is expressed in the developing forebrain and spinal cord. Functionally, the transcription factor is thought to be involved with neuronal developing, patterning, and fate specification of neurons and oligodendrocytes. NKX2.2 was recently reported as a valuable marker for Ewing's sarcoma. The vast majority of Ewing's sarcomas (85%) harbor a chromosomal translocation, most commonly t(11;22)(q24;q12) encoding an aberrant EWS-FLI transcription factor. NKX2.2 expression is tightly correlated with EWS-FLI expression, a critical downstream target that is required for the cancerous behavior of Ewing's sarcoma.

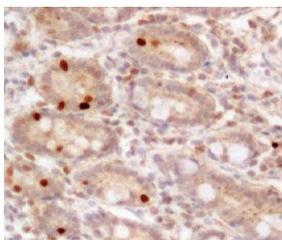
Specifications

Clone: EP336
 Source: Rabbit
 Isotype: IgG
 Reactivity: Human
 Localization: Nucleus
 Formulation: Antibody in PBS pH7.4, containing 0.2% BSA and ≤ 0.09% sodium azide (NaN3)
 Storage: Store at 2°- 8°C
 Applications: IHC
 Package:

Description	Catalog No.	Size
NKX2.2 Prediluted	RM0385RTU7	7 ml

IHC Procedure

Positive Control: Pancreas, Ewing sarcoma
 Concentrated Dilution: Prediluted
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using 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 small intestine 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.