

**Mouse Anti-NKX2.2 [NX2/294]: MC0891, MC0891RTU7**

**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**

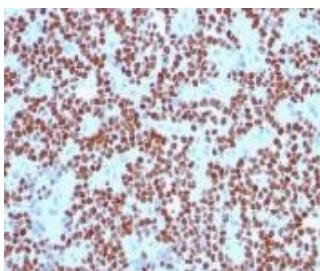
Clone: NX2/294  
 Source: Mouse  
 Isotype: IgG2b/k  
 Reactivity: Human, mouse, rat, chicken  
 Localization: Nucleus  
 Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, Flow Cyt., ICC/IF, WB  
 Package:

Description	Catalog No.	Size
NKX2.2 Concentrated	MC0891	1 ml
NKX2.2 Prediluted	MC0891RTU7	7 ml

**IHC Procedure\***

Positive Control Tissue: Pancreas, Ewing sarcoma  
 Concentrated Dilution: 50-200  
 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 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.

Doc. 100-MC0891  
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