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36-2850: Anti-NKX2.2 (Neuroendocrine & Ewing's Sarcoma Marker) Monoclonal Antibody(Clone: NX2/1523)

Clonality :	Monoclonal
Clone Name :	NX2/1523
Application :	IHC
Reactivity :	Human
Gene :	NKX2-2
Gene ID :	4821
Uniprot ID :	O95096
Alternative Name :	Homeobox protein NK-2 homolog B, NK2 transcription factor like protein B, NK2 transcription factor related locus 2, NKX22, Nkx2b, tinman
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Recombinant fragment (around aa1-119) of human NKX2.2 protein (exact sequence is proprietary)

Description

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.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/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 condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

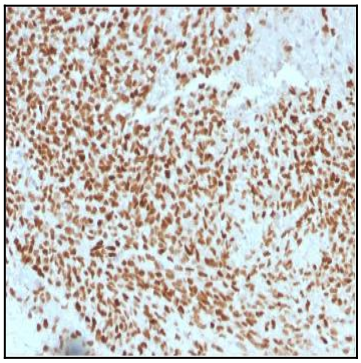

Fig. 1: Formalin-fixed, paraffin-embedded human Ewing's Sarcoma stained with NKX2.2 Mouse Monoclonal Antibody (NX2/1523).

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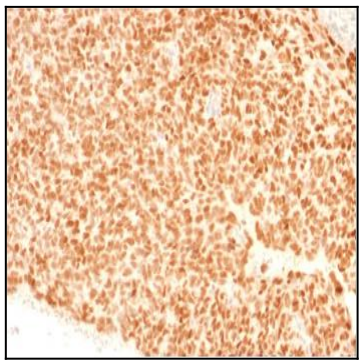

Fig. 2: Formalin-fixed, paraffin-embedded human Ewing's Sarcoma stained with NKX2.2 Mouse Monoclonal Antibody (NX2/1523).

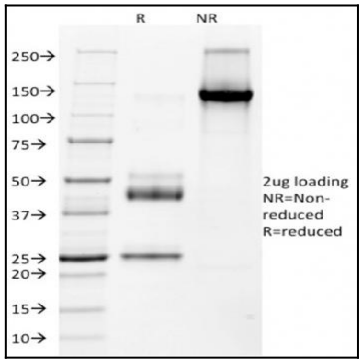

Fig. 3: SDS-PAGE Analysis Purified NKX2.2 Mouse Monoclonal Antibody (NX2/1523). Confirmation of Integrity and Purity of Antibody.

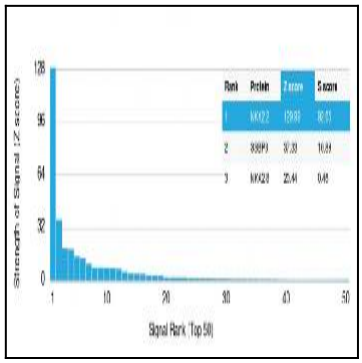

Fig. 4: Analysis of Protein Array containing >19,000 full-length human proteins using NKX2.2 Mouse Monoclonal Antibody (NX2/1523) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.