

36-2851: Anti-NKX2.2 (Neuroendocrine & Ewing's Sarcoma Marker) Monoclonal Antibody(Clone: NX2/1524)

Clonality :	Monoclonal
Clone Name :	NX2/1524
Application :	FACS,IF,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

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); 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°C followed by cooling at RT for 20 minutes);

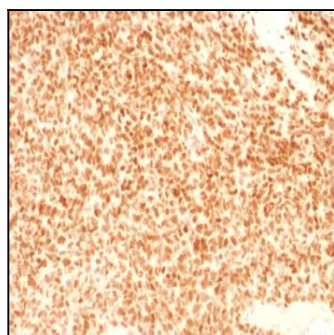


Fig. 1: Formalin-fixed, paraffin-embedded human Ewing's Sarcoma stained with NKX2.2 Mouse Monoclonal Antibody (NX2/1524).

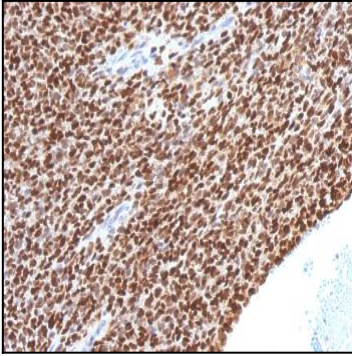


Fig. 2: Formalin-fixed, paraffin-embedded human Ewing's Sarcoma stained with NKX2.2 Mouse Monoclonal Antibody (NX2/1524).

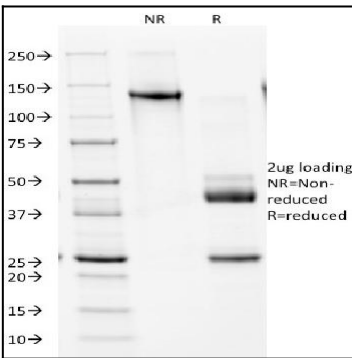


Fig. 3: SDS-PAGE Analysis Purified NKX2.2 Mouse Monoclonal Antibody (NX2/1524). Confirmation of Purity and Integrity of Antibody

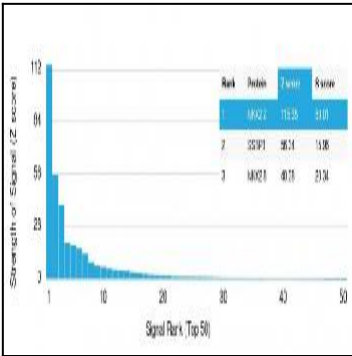


Fig. 4: Analysis of Protein Array containing >19,000 full-length human proteins using NKX2.2 Mouse Monoclonal Antibody (NX2/1524) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ 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 HuProt™ 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.