

## DESCRIPTION

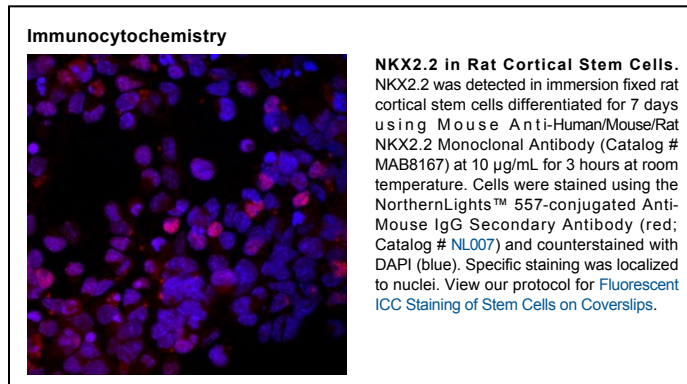
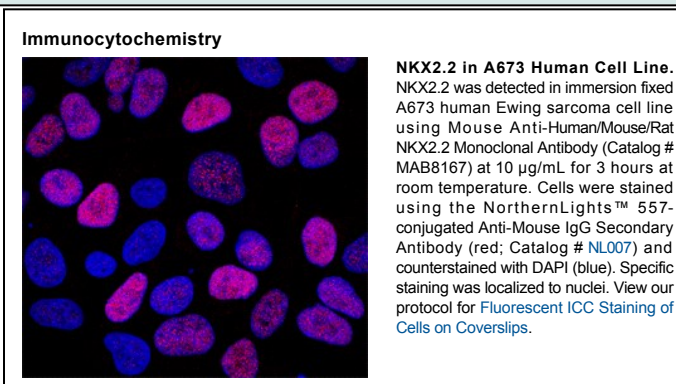
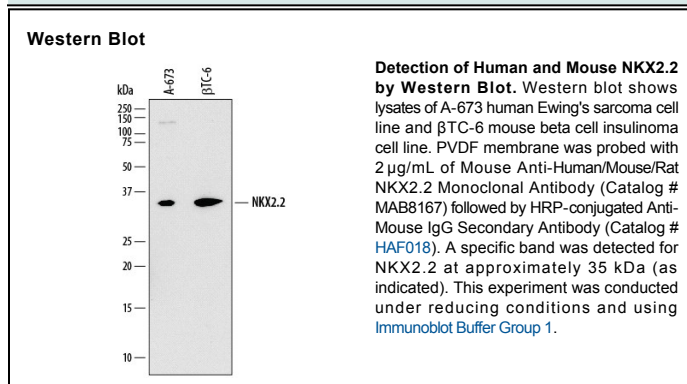
<b>Species Reactivity</b>	Human/Mouse/Rat
<b>Specificity</b>	Detects human NKX2.2 in ELISA and Western Blot.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 883411
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human NKX2.2 Met1-Lys128 Accession # O95096
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

## APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
<b>Western Blot</b>	2 µg/mL	See Below
<b>Immunocytochemistry</b>	8-25 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

NKX2.2, also known as NKX2-2 or NKX2B, is an approximately 30 kDa, 273 amino acid homeobox nuclear transcription factor of the NKX2 protein family. It specifies differentiation of pancreatic islet cells such as alpha, beta, PP, and epsilon lineages. It also functions in developmental neuronal patterning of the ventral spinal cord in response to graded Sonic Hedgehog gradients and contributes pathfinding of commissural neurons. Within the region used as an immunogen, human NKX2.2 shares 96% and 97% amino acid sequence identity with mouse and rat NKX2.2, respectively.