

CA1034	<b>Nkx2.2</b>	
	<b>Monoclonal Antibody (PR-3B2)</b>	
	<b>Prod. No. S2115-100UG</b>	Orders      866 372-7442 & Support    support@primorigen.com
	<i>For Research Use Only</i> <i>Not intended for use in humans or animals</i>	Web            www.primorigen.com

<b>Reacts with</b>	Human*
<b>Tested Applications</b>	WB, ELISA
<b>Host</b>	Mouse
<b>Clone</b>	PR-3B2
<b>Isotype</b>	IgG2a, κ

\*Other species not tested

**Background:** Nkx2.2 is a transcription factor belonging to NK-2 homeobox family. It is expressed in the ventral regions of the developing vertebrate central nervous system (CNS) and is therefore thought to play a role in the morphogenesis of the CNS. In addition, gene knockout experiments in mice have identified Nkx2.2 as a key regulator of insulin-producing beta-cell development in the pancreas. Nkx2.2 is used as a marker for pancreatic islet cell lineages when inducing differentiation of human stem cells.

<b>Size:</b> 100 µg
<b>Immunogen:</b> Recombinant human Nkx2.2 fragment (AA 1-127) expressed in <i>E. coli</i> and refolded to soluble form.
<b>Purification:</b> Protein G chromatography
<b>Formulation:</b> 1 mg/ml in PBS Preservative: 0.09% NaN <sub>3</sub>
<b>Storage:</b> Store at 4°C (<3 months) or -20°C. Avoid multiple freeze-thaws.
<b>Recommended Uses:</b>
Western Blot                      1:1000-1:5000
ELISA (detect)                      1:1000
<b>Note:</b> Optimal concentrations should be empirically determined.
<b>Target Alternative Names:</b> Homeobox protein Nkx-2.2; Homeobox protein NK-2 homolog B; NK2 homeobox 2
<b>Target Size:</b> 273 AA; 30.1 kDa
<b>Target Database Links:</b>
RefSeq Protein NP_002500.1
RefSeq mRNA NM_002509.2
UniProt O95096

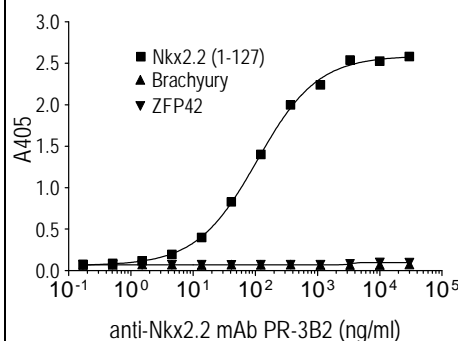
### Applications:

**(A)** Indirect ELISA detection of immobilized Nkx2.2 (AA 1-127) immunogen with titrated amounts of Nkx2.2 mAb (PR-3B2). No binding is seen to irrelevant recombinant proteins Brachyury or ZFP42.

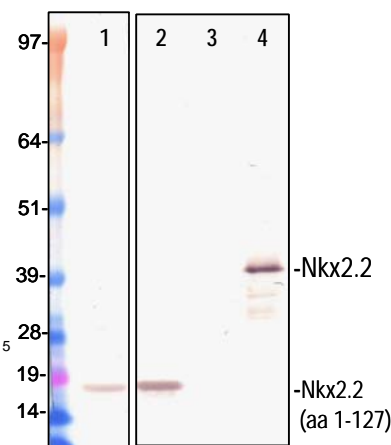
**(B)** Western blot detection of Nkx2.2 using 0.1 µg/ml (Lane 1) or 1.0 µg/ml (Lanes 2-4) Nkx2.2 mAb (PR-3B2): (1&2) 250 ng Nkx2.2 recombinant protein (aa1-127 fragment), (3) 5 µg untransfected HEK-293 lysate, (4) 5 µg HEK-293-Nkx2.2 transfectant cell lysate.

*Note: Representative data are shown (not Lot-specific).*

### A. ELISA



### B. WB



**Warranty:** Each Lot has been verified to meet quality specifications in accordance with testing guidelines. We will replace the product if it does not conform to specifications. Product guaranteed for 6 months from date of purchase if stored as directed. This product must not be resold without written permission from Primorigen Biosciences.

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