

CA1035	Nkx2.2	
	Monoclonal Antibody (PR-1C11)	
	Prod. No. S2116-100UG	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

Reacts with	Human*
Tested Applications	WB, ELISA
Host	Mouse
Clone	PR-1C11
Isotype	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.

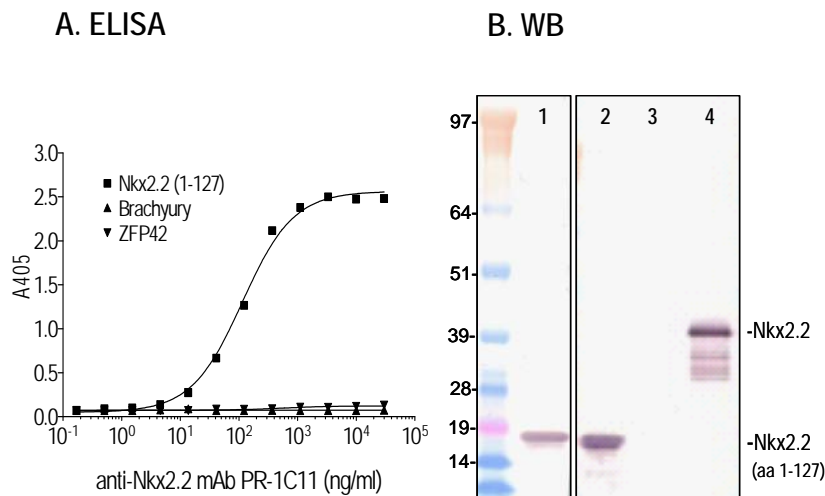
Size: 100 µg
Immunogen: Recombinant human Nkx2.2 fragment (AA 1-127) expressed in <i>E. coli</i> and refolded to soluble form.
Purification: Protein G chromatography
Formulation: 1 mg/ml in PBS Preservative: 0.09% NaN ₃
Storage: Store at 4°C (<3 months) or -20°C. Avoid multiple freeze-thaws.
Recommended Uses:
Western Blot 1:1000-1:5000
ELISA (detect) 1:1000
Note: Optimal concentrations should be empirically determined.
Target Alternative Names: Homeobox protein Nkx-2.2; Homeobox protein NK-2 homolog B; NK2 homeobox 2
Target Size: 273 AA; 30.1 kDa
Target Database Links:
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-1C11). 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-1C11): (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).



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