10320 Camino Santa Fe, Suite G
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NKX2.2 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1717a

Specification

NKX2.2 Antibody - Product Information

Application	**WB, FC, E**
Primary Accession	O95096
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**30.1kDa KDa**

Description
The protein encoded by this gene contains a homeobox domain and may be involved in the morphogenesis of the central nervous system. This gene is found on chromosome 20 near NKX2-4, and these two genes appear to be duplicated on chromosome 14 in the form of TITF1 and NKX2-8. The encoded protein is likely to be a nuclear transcription factor.

Immunogen
Purified recombinant fragment of human NKX2.2 expressed in E. Coli.

Formulation
Purified antibody in PBS with 0.05% sodium azide

NKX2.2 Antibody - Additional Information

Gene ID 4821

Other Names
Homeobox protein Nkx-2.2, Homeobox protein NK-2 homolog B, NKX2-2, NKX2.2, NKX2B

Dilution
WB~~1/500 - 1/2000
FC~~1/200 - 1/400
E~~1/10000

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
NKX2.2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

NKX2.2 Antibody - Protein Information

Name NKX2-2

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Synonyms NKX2.2, NKX2B

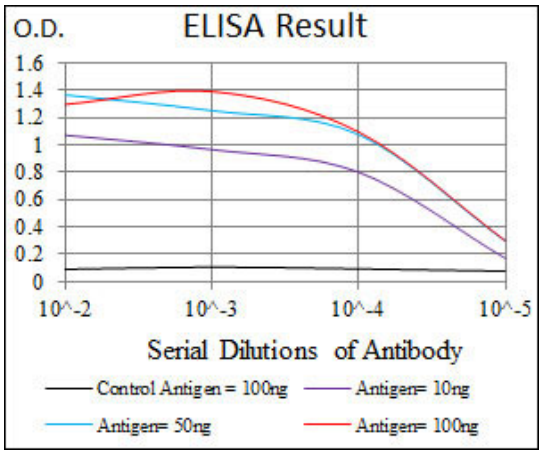
Function
Transcriptional activator involved in the development of insulin-producting beta cells in the endocrine pancreas (By similarity). May also be involved in specifying diencephalic neuromeric boundaries, and in controlling the expression of genes that play a role in axonal guidance. Binds to elements within the NEUROD1 promoter (By similarity).

Cellular Location
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00108}.

NKX2.2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture



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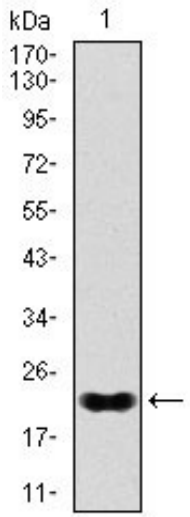

Figure 1: Western blot analysis using NKX2.2 mAb against human NKX2.2 recombinant protein.(Expected MW is 22 kDa)

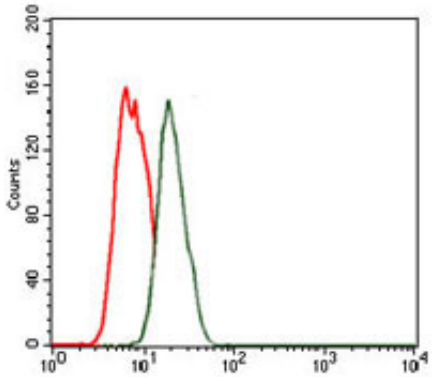

Figure 2: Flow cytometric analysis of MCF-7 cells using NKX2.2 mouse mAb (green) and negative control (red).

NKX2.2 Antibody - References

1. J Surg Res. 2010 Sep;163(1):47-51 2. Endocr Relat Cancer. 2009 Mar;16(1):267-79.