

## NKX2.2 Antibody

Catalog No: #48481

Package Size: #48481-1 50ul #48481-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

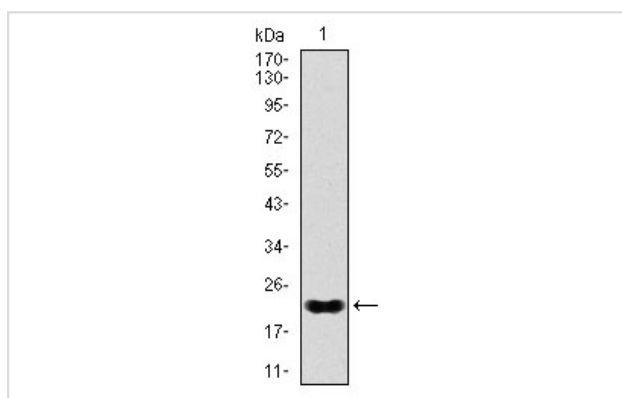
## Description

|                       |   |
|-----------------------|---|
| Product Name          | NKX2.2 Antibody   |
| Host Species          | Mouse   |
| Clonality             | Monoclonal  |
| Clone No.             | H12-E4  |
| Purification          | ProA affinity purified  |
| Applications          | WB,FC   |
| Species Reactivity    | Hu  |
| Immunogen Description | Recombinant protein   |
| Other Names           | Homeobox protein NK 2 homolog B antibody Homeobox protein NK-2 homolog B antibody Homeobox protein Nkx 2.2 antibody Homeobox protein Nkx-2.2 antibody NK 2 homolog B antibody NK2 homeobox 2 antibody NK2 transcription factor like protein B antibody NK2 transcription factor related locus 2 antibody NKX2 2 antibody NKX2-2 antibody NKX22 antibody NKX22_HUMAN antibody Nkx2b antibody tinman antibody |
| Accession No.         | Swiss-Prot#:  |
| Calculated MW         | 30 kDa  |
| Formulation           | 1*TBS (pH7.4), 1%BSA, Preservative: 0.05% Sodium Azide.   |
| Storage               | Store at -20°C  |

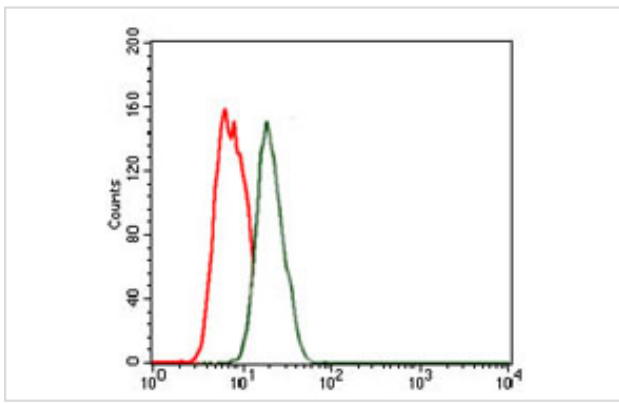
## Application Details

WB: 1:500-1:1,000FC: 1:100-1:200

## Images



Western blot analysis of NKX2.2 on human NKX2.2 recombinant protein using anti-NKX2.2 antibody at 1/1,000 dilution.



Flow cytometric analysis of MCF-7 cells with NKX2.2 antibody at 1/100 dilution (green) compared with an unlabelled control (cells without incubation with primary antibody; red).

## Background

Members of the NK-2 family of homeodomain proteins are key regulators of growth and development in several tissues, including brain, heart and pancreas. During neural development, sonic hedgehog (Shh) is known to control cell fate and mitogenesis, which is correlated with Shh dose-dependent expression of several genes, including Nkx-2.1, Nkx-2.2 and Nkx-2.9. Specifically, the Nkx-2.2 protein is responsible for directing ventral neuronal patterning in response to graded Shh signaling. In the pancreas, Nkx-2.2 is expressed in a, b and pancreatic polypeptide (PP) cells, but not in d cells. Nkx-2.2 expression is required for differentiation of pancreatic b cells, which produce insulin. Homozygous null mutations of the Nkx-2.2 gene in mice lead to severe hyperglycemia and death shortly after birth, which suggests that Nkx-2.2 may be an important therapeutic target for pancreatic diseases, including diabetes and cancer.

## References

Note: This product is for in vitro research use only