

Anti-NKX2.2 Antibody (1F181)

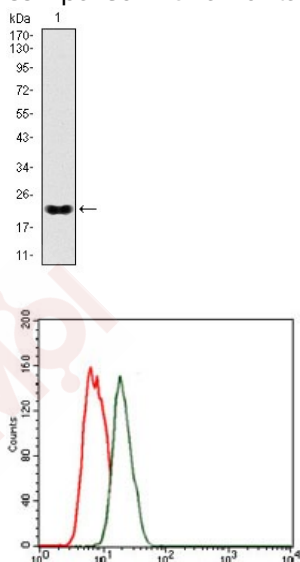
Product Details

Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 30 kDa.
Clone:	1F181
Purification:	ProA affinity purified

Applications

Verified Activity:

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



Application:	FCM,WB
Recommended	WB: 1:500-1000; FCM: 1:100-200

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	O95096
Synonyms:	NK2 transcription factor related locus 2;NKX2-2;NKX22_HUMAN;NK2 homeobox 2;Homeobox protein NK-2 homolog B;Nkx2b;NK 2 homolog B;Homeobox protein Nkx 2.2;NKX2 2;Homeobox protein NK 2 homolog B;Homeobox protein Nkx-2.2;tinman;NKX22;NK2 transcription factor like protein B

Research 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481