Immunoway
Best Tools for immunology Research

Nkx-2.5 Monoclonal Antibody

Catalog No :	YM0476
Reactivity :	Human
Applications :	WB;ELISA
Target :	Nkx-2.5
Gene Name :	NKX2-5
Protein Name :	Homeobox protein Nkx-2.5
Human Gene Id :	1482
Human Swiss Prot No :	P52952
Mouse Swiss Prot No :	P42582
Immunogen :	Purified recombinant fragment of human Nkx-2.5 expressed in E. Coli.
Specificity :	Nkx-2.5 Monoclonal Antibody detects endogenous levels of Nkx-2.5 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	Affinity purification
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	35kD
P References :	1. Stem Cells Dev. 2005 Aug;14(4):425-39.

2. Cancer Res. 2003 Sep 1;63(17):5329-34.
3. Circ J. 2002 Jun;66(6):561-3.

Background :

This gene encodes a homeobox-containing transcription factor. This transcription factor functions in heart formation and development. Mutations in this gene cause atrial septal defect with atrioventricular conduction defect, and also tetralogy of Fallot, which are both heart malformation diseases. Mutations in this gene can also cause congenital hypothyroidism non-goitrous type 5, a non-autoimmune condition. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009],

Function :

disease:Defects in NKX2-5 are a cause of tetralogy of Fallot (TOF) [MIM:187500]. TOF is a congenital heart anomaly which consists of pulmonary stenosis, ventricular septal defect, dextroposition of the aorta (aorta is on the right side instead of the left) and hypertrophy of the right ventricle. This condition results in a blue baby at birth due to inadequate oxygenation. Surgical correction is emergent.,disease:Defects in NKX2-5 are the cause of atrial septal defect with atrioventricular conduction defects (ASD-AVCD) [MIM:108900]. ASD-AVCD is a congenital heart malformation characterized by atrioventricular conduction defects and incomplete closure of the wall between the atria resulting in blood flow from the left to the right atria.,disease:Defects in NKX2-5 are the cause of congenital hypothyroidism non-goitrous type 5 (CHNG5) [MIM:225250]. CHNG5 is a non-autoimmune condition charact

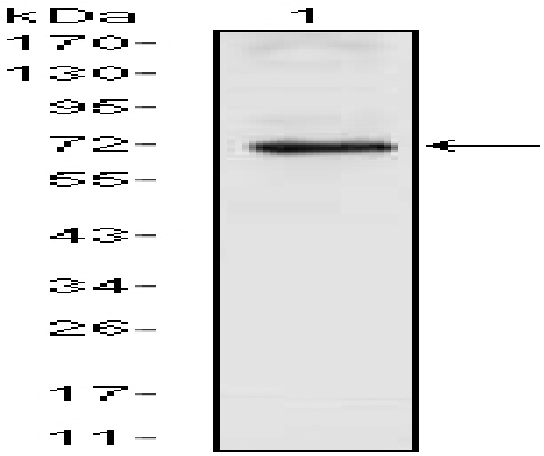
Subcellular Location :

Nucleus .

Expression :

Expressed only in the heart.

Products Images



Western Blot analysis using Nkx-2.5 Monoclonal Antibody against full-length NKX2.5 (aa1-324)-hIgGFc transfected HEK293 cell lysate (1).