Nkx-2.5 Monoclonal Antibody

Catalog No	YP-Ab-15733
Isotype	IgG
Reactivity	Human
Applications	WB;ELISA
Gene Name	NKX2-5
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	Antibody are purified by protein G affinity chromatography. Liquid in PBS containing 0.03% sodium azide.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	NKX25;Homeobox protein Nkx-2.5;Homeobox protein Nkx 2.5;Homeobox protein NK-2 homolog E;CSX;Nkx-2.5;NKX2-5;NKX2.5;NKX2E;Cardiac-specific homeobox;Homeobox protein CSX
Molecular Weight	37kD
Cell Pathway	Nucleus .
Tissue Specificity	Expressed only in the heart.
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

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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images

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