10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

NKX2-5 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a full length recombinant NKX2-5.
Catalog # AT3057a

Product Information

Application	WB, E
Primary Accession	P52952
Other Accession	BC025711
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	S1
Calculated MW	34918

Additional Information

Gene ID	1482
Other Names	Homeobox protein Nkx-25, Cardiac-specific homeobox, Homeobox protein CSX, Homeobox protein NK-2 homolog E, NKX2-5, CSX, NKX25, NKX2E
Target/Specificity	NKX2-5 (AAH25711, 1 a.a. ~ 324 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	NKX2-5 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

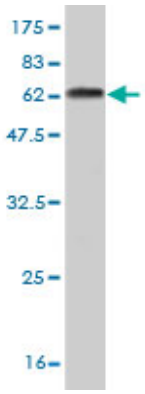
This gene encodes a homeobox-containing transcription factor. This transcription factor functions in heart formation and development. Mutations in this gene cause atrial septal defect with atrioventricular conduction defect, and also tetralogy of Fallot, which are both heart malformation diseases. Mutations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

References

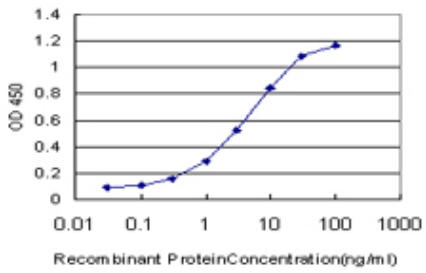
New mutations in ZFPM2/FOG2 gene in tetralogy of Fallot and double outlet right ventricle. De Luca A, et al.

Clin Genet, 2010 Aug 2. PMID 20807224.Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.A whole genome association study of mother-to-child transmission of HIV in Malawi. Joubert BR, et al. Genome Med, 2010 Mar 1. PMID 20487506.Mutational spectrum in the cardiac transcription factor gene NKX2.5 (CSX) associated with congenital heart disease. Stallmeyer B, et al. Clin Genet, 2010 Apr 20. PMID 20456451.Transcription factor mutations and congenital hypothyroidism: systematic genetic screening of a population-based cohort of Japanese patients. Narumi S, et al. J Clin Endocrinol Metab, 2010 Apr. PMID 20157192.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (61.38 KDa) .



Detection limit for recombinant GST tagged NKX2-5 is approximately 0.1ng/ml as a capture antibody.