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

NKX2-5 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant NKX2-5.
Catalog # AT3056a

Product Information

Application	WB, E
Primary Accession	P52952
Other Accession	BC025711
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	S3
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) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

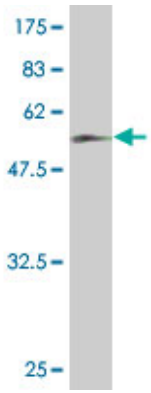
This gene encodes a homeobox-containing transcription factor. This transcription factor functions in heart formation and development. Mutations in this gene cause atrial septal defect with atrioventricular conduction defect, and also tetralogy of Fallot, which are both heart malformation diseases. Mutations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

References

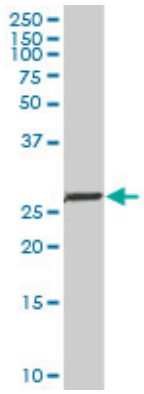
1.Complex SUMO-1 Regulation of Cardiac Transcription Factor Nkx2-5.Costa MW, Lee S, Furtado MB, Xin L,

Sparrow DB, Martinez CG, Dunwoodie SL, Kurtenbach E, Mohun T, Rosenthal N, Harvey RP.PLoS One. 2011;6(9):e24812. Epub 2011 Sep 12.2.RNA toxicity in myotonic muscular dystrophy induces NKX2-5 expression.Yadava RS, Frenzel-McCardell CD, Yu Q, Srinivasan V, Tucker AL, Puymirat J, Thornton CA, Prall OW, Harvey RP, Mahadevan MS.Nat Genet. 2008 Jan;40(1):61-8. Epub 2007 Dec 16.

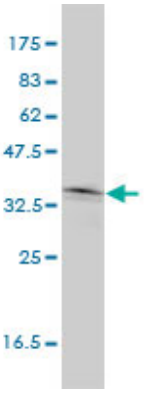
Images



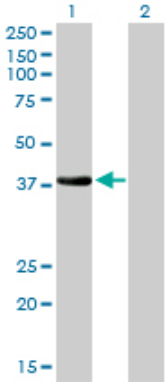
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (61.38 KDa) .



NKX2-5 monoclonal antibody (M01), clone 1E4-G5.
Western Blot analysis of NKX2-5 expression in human thyroid(diffuse hyperplasia).

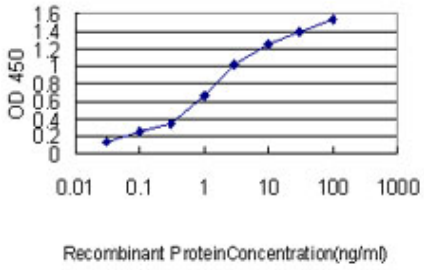


NKX2-5 monoclonal antibody (M01), clone 1E4-G5
Western Blot analysis of NKX2-5 expression in HeLa ((Cat # AT3056a)



Western Blot analysis of NKX2-5 expression in transfected 293T cell line by NKX2-5 monoclonal antibody (M01), clone 1E4-G5.

Lane 1: NKX2-5 transfected lysate(34.9 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged NKX2-5 is approximately 0.03ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.