

## **NKX2-5 Antibody (monoclonal) (M02)**

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

Catalog # AT3057a

### **Specification**

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#### **NKX2-5 Antibody (monoclonal) (M02) - Product Information**

Application	WB, E
Primary Accession	<a href="#">P52952</a>
Other Accession	<a href="#">BC025711</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	34918

#### **NKX2-5 Antibody (monoclonal) (M02) - 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

##### **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.

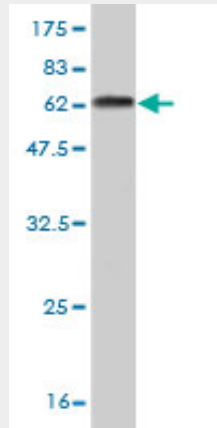
#### **NKX2-5 Antibody (monoclonal) (M02) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

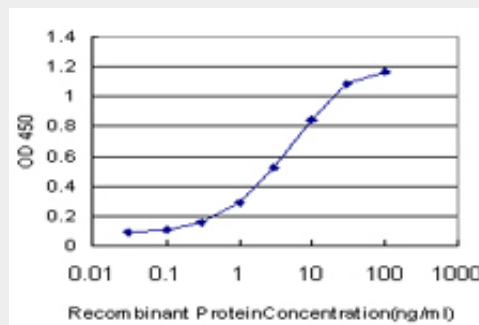
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### NKX2-5 Antibody (monoclonal) (M02) - 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.

### NKX2-5 Antibody (monoclonal) (M02) - 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.

### NKX2-5 Antibody (monoclonal) (M02) - 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 Thiazolidinedione-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.