

bs-2054R**[Primary Antibody]****BioSS**
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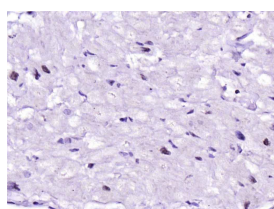
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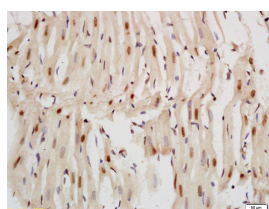
400-901-9800

Nkx2.5 Rabbit pAb**DATASHEET**

Host: Rabbit	Isotype: IgG	Applications: IHC-P (1:100-500)
Clonality: Polyclonal		IHC-F (1:100-500)
GeneID: 1482	SWISS: P52952	IF (1:100-500)
Target: Nkx2.5		Reactivity: Human, Rat (predicted: Mouse, Rabbit, Pig, Cow, Dog)
Immunogen: KLH conjugated synthetic peptide derived from human Nkx2.5: 85-180/324.		Predicted MW.: 36 kDa
Purification: affinity purified by Protein A		Subcellular Location: Nucleus
Concentration: 1mg/ml		
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
Background: In humans, mutations of the gene encoding the homeobox transcription factor Nkx2.5 result in electrical conduction defects and morphological abnormalities of the heart (Dupays et al., 2005). In the heart, Nkx2.5 is expressed in both the myocardium and the endocardium. Differentiation of embryonic stem cells to Nkx2.5- positive cardiomyocytes is facilitated by Wnt11.		

VALIDATION IMAGES

Paraformaldehyde-fixed, paraffin embedded (human heart); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Nkx2.5) Polyclonal Antibody, Unconjugated (bs-2054R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: Rat heart; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-Nkx2.5/Cardiac-specific homeobox 1 Polyclonal Antibody, Unconjugated (bs-2054R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody (SP-0023) and DAB (C-0010) staining

SELECTED CITATIONS

- **[IF=2.649]** Kim CW et al. Effects of cigarette smoke components on myocardial differentiation of mouse embryonic stem cells. Environ Toxicol. 2019 Sep 10. WB ;Mouse. 31507073
- **[IF=1.86]** Ruan, Zhong-Bao, et al. "Inhibitor of p53-p21 pathway induces the differentiation of human umbilical cord derived mesenchymal stem cells into cardiomyogenic cells." Cytotechnology (2015): 1-9. ICC ;="Human". 26044732