

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects endogenous human NKX2.5 in Western blots.                                                                                                                                                                                                                           |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 259415                                                                                                                                                                                                                            |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human NKX2.5<br>Gln24-Arg137<br>Accession # P52952                                                                                                                                                                                      |
| <b>Conjugate</b>          | Alexa Fluor 647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 668 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

## BACKGROUND

NKX2.5, also called NKX-2E or Csx (Cardiac specific homeobox protein), is a transcriptional activator. Its expression is essential for normal cardiovascular development. During embryonic development, NKX2.5 is also expressed in the foregut, thyroid, spleen, and stomach, while in the adult expression is predominantly restricted to the heart. NKX2.5 protein contains a central single DNA binding domain flanked by two Ala/Pro rich domains. Sumoylation of NKX2.5 at Lys-51 enhances its DNA binding and transcriptional activity.

## PRODUCT SPECIFIC NOTICES

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