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diagnostic or therapeutic use.**

EB09412 - Goat Anti-CSX1 / NKX2-5 Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: NKX2-5, NK2 transcription factor related, locus 5 (Drosophila), CHNG5, CSX, CSX1, NKX2.5, NKX2E, NKX4-1, NK2 transcription factor homolog E, NK2 transcription factor related, locus 5, cardiac-specific homeo box, tinman paralog

Official Symbol: NKX2-5

Accession Number(s): NP_004378.1; NP_001159647.1; NP_001159648.1

Human GeneID(s): [1482](#)

Non-Human GeneID(s): 18091 (mouse), 114109 (rat)

Important Comments: This antibody is expected to recognize all three reported isoforms (NP_004378.1; NP_001159647.1; NP_001159648.1).

Immunogen

Peptide with sequence C-PRAYSDPDPKDPK, from the internal region of the protein sequence according to NP_004378.1; NP_001159647.1; NP_001159648.1.

Please note the [peptide](#) is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:32000.

Western blot: Approx. 38kDa band observed in Human, Mouse and Rat Heart lysates (calculated MW of 34.9kDa according to Human NP_004378.1, 34.2kDa according to Mouse NP_032726.1 and 34.3kDa according to Rat NP_446103.2). Recommended concentration: 1-3µg/ml. Primary incubation 1 hour at room temperature.

IHC: Paraffin embedded Human Heart. Recommended concentration: 5-6µg/ml.

Species Reactivity

Tested: Human, Mouse, Rat

Expected from sequence similarity: Human, Mouse, Rat, Cow, Dog

Specific Reference

This antibody has been successfully used in Western blot on Rat:

Sergio Li Calzi, Todd Cook, Domenico G. Della Rocca, Juan Zhang, Vinayak Shenoy, Yuanqing Yan, Andrew Espejo, Anandharajan Rathinasabapathy, Max H. Jacobsen, Tatiana Salazar, George E. Sandusky, Lynn C. Shaw, Keith March, Mohan K. Raizada, Carl J. Pepine, Michael J. Katovich, and Maria B. Grant

Complementary Embryonic and Adult Cell Populations Enhance Myocardial Repair in Rat Myocardial Injury Model

Stem Cells International Volume 2019, Article ID 3945850, 11 pages

<https://doi.org/10.1155/2019/3945850> (2019)

PMID: 31781239

EB09412 (1µg/ml) staining of Human (A), Mouse (B) and (2ug/ml) Rat (C) Heart lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB09412 (6µg/ml) staining of paraffin embedded Human Heart. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.

EB09412 Negative Control showing staining of paraffin embedded Human Heart, with no primary antibody.