Goat anti-CSX1 / NKX2-5 Antibody

Item Number	dAP-1830
Target Molecule	Principle Name: CSX1 / NKX2-5; Official Symbol: NKX2-5; All Names and Symbols: 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; Accession Number (s): NP_004378.1; NP_001159647.1; NP_001159648.1; Human Gene ID(s): 1482; Non-Human GeneID(s): 18091 (mouse) 114109 (rat)
Immunogen	PRAYSDPDPAKDPR, is from internal region This antibody is expected to recognize all three reported isoforms (NP_004378.1; NP_001159647.1; NP_001159648.1).
Applications	Pep ELISA, WB, IHC Species Tested: Human
Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied As	lyophilized powder of 50ug or 100ug IgG; Reconsititute IgG with 100ul or 200ul sterile DI Water and final product will be formulated as 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.
Peptide ELISA	Peptide ELISA: antibody detection limit dilution 1 to 32000.
Western Blot	Western Blot: Approx 45kDa band observed in Human Heart lysates (calculated MW of 34.9kDa according to NP_004378.1). The observed molecular weight corresponds to earlier findings in literature with different antibodies (Shiojima et al, Circ Res. 1996 Nov
IHC	Immunohistochemistry: Paraffin embedded Human Heart. Recommended concentration: 3.75µg/ml.
Reference	Reference(s): Briggs LE, Takeda M, Cuadra AE, Wakimoto H, Marks MH, Walker AJ, Seki T, Oh SP, Lu JT, Sumners C, Raizada MK, Horikoshi N, Weinberg EO, Yasui K, Ikeda Y, Chien KR, Kasahara H. Perinatal loss of Nkx2-5 results in rapid conduction and contraction defects. Circulation research 2008 Sep 103 (6):

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for Research Use Only