Goat anti-Atrial natriuretic factor Antibody

Item Number	dAP-2506
Target Molecule	Principle Name: Atrial natriuretic factor; Official Symbol: NPPA; All Names and Symbols: NPPA; natriuretic peptide A; ANF; ANP; ATFB6; CDD-ANF; PND; atrial natriuretic factor; atriopeptin; cardionatrin; natriuretic peptide precursor A; prepronatriodilatin; Accession Number (s): NP_006163.1; Human Gene ID(s): 4878; Non-Human GeneID(s): 230899 (mouse) 24602 (rat)
Immunogen	RIGAQSGLGCNSFR, is from C Terminus The immunizing peptide represents aa137-150 of the precursor NPPA.
Applications	Pep ELISA, WB, IHC Species Tested: Human, Mouse, Rat
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 19kDa band observed in Mouse and Rat Heart lysates (calculated MW of 16.4kDa according to Human precursor NP_006163.1 and 16.6kDa accordiong to Mouse precursor NP_032751.1). Recommended concentration: 0.01-0.03μg/ml.
IHC	Immunohistochemistry: In paraffin embedded Human Heart shows vesicular staining inside the cardiac fibrils, accumulating towards the cell membrane. Recommended concentration, 5-10μg/ml.
Reference	Reference(s): Ibebuogu UN, Gladysheva IP, Houng AK, Reed GL. Decompensated heart failure is associated with reduced corin levels and decreased cleavage of pro-atrial natriuretic peptide. Circ Heart Fail. 2011 Mar 1;4(2):114-20..PMID: 21216831->

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