

## Goat anti-SERCA2 / ATP2A2 Antibody

<b>Item Number</b>	dAP-2983
<b>Target Molecule</b>	Principle Name: SERCA2 / ATP2A2; Official Symbol: ATP2A2; All Names and Symbols: ATP2A2; ATPase, Ca++ transporting, cardiac muscle, slow twitch 2; ATP2B; DAR; DD; DKFZp686P0211; FLJ20293; FLJ38063; MGC45367; SERCA2; ATPase, Ca++ dependent, slow-twitch, cardiac muscle-2; SR Ca(2+)-ATPase 2; calcium pump 2; calcium-transporting ATPase s; Accession Number (s): NP_001672.1; NP_733765.1; Human Gene ID(s): 488; Non-Human GeneID(s): 11938 (mouse) 29693 (rat)
<b>Immunogen</b>	DELNPSAQRDACLN, is from internal region This antibody is expected to recognize both reported isoforms (NP_001672.1; NP_733765.1).
<b>Applications</b>	Pep ELISA, WB  Species Tested: Human, Mouse, Rat
<b>Purification</b>	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
<b>Supplied As</b>	lyophilized powder of 50ug or 100ug IgG; Reconstitute 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.
<b>Peptide ELISA</b>	Peptide ELISA: antibody detection limit dilution 1 to 128000.
<b>Western Blot</b>	Western Blot: Approx 110kDa band observed in Human, Mouse and Rat Heart lysates (calculated MW of 110kDa according to NP_001672.1). Recommended concentration: 0.1-0.3µg/ml.
<b>IHC</b>	
<b>Reference</b>	Reference(s): Satoh K, Matsu-Ura T, Enomoto M, Nakamura H, Michikawa T, Mikoshiba K. Highly cooperative dependence of sarco/endoplasmic reticulum calcium ATPase SERCA2a pump activity on cytosolic calcium in living cells. J Biol Chem. 2011 Jun 10;286(23):20591-9..PMID: 21515674->

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**