

## Goat anti-Aconitase 2 (aa541-555) Antibody

<b>Item Number</b>	dAP-2047
<b>Target Molecule</b>	Principle Name: Aconitase 2 (aa541-555); Official Symbol: ACO2; All Names and Symbols: ACO2; aconitase 2, mitochondrial; ACONM; MGC20605; MGC33908; aconitate hydratase; citrate hydro-lyase; Accession Number (s): NP_001089.1; Human Gene ID(s): 50; Non-Human GeneID(s): 11429 (mouse) 79250 (rat)
<b>Immunogen</b>	QDTYQHPPKDSSGQH, is from internal region
<b>Applications</b>	Pep ELISA, WB, IHC Species Tested: Human, Mouse, Rat, Pig
<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 16000.
<b>Western Blot</b>	Western Blot: Approx 90kDa band observed in Human Heart lysates, in Human, Mouse and Rat Adipose lysates and in Mouse, Rat and Pig Skeletal Muscle lysates (calculated MW of 85.4kDa according to NP_001089.1). Recommended concentration: 0.01-0.03µg/ml.
<b>IHC</b>	Immunohistochemistry: In paraffin embedded Human Breast shows mitochondrial staining in the epithelial cells of the ducts. Recommended concentration, 3-5µg/ml.
<b>Reference</b>	Reference(s): Bota DA, Davies KJ. Lon protease preferentially degrades oxidized mitochondrial aconitase by an ATP-stimulated mechanism. Nat Cell Biol. 2002 Sep;4(9):674-80..PMID: 12198491->

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**