

Goat anti-ATP5A1 Antibody

Item Number	dAP-3077
Target Molecule	Principle Name: ATP5A1; Official Symbol: ATP5A1; All Names and Symbols: ATP5A1; ATP synthase, H ⁺ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle; ATP5A; ATP5AL2; ATPM; MOM2; OMR; ORM; hATP1; ATP synthase alpha chain, mitochondrial; ATP synthase subunit alpha, mitochondrial; ATP synthase, H ⁺ transportin; Accession Number (s): NP_004037.1; NP_001244263.1; NP_001001935.1; Human Gene ID(s): 498; Non-Human GeneID(s): 11946 (mouse) 65262 (rat)
Immunogen	RVHGLRNQQAEE, is from internal region (near N terminus) This antibody is expected to recognize all reported isoforms (NP_004037.1; NP_001244263.1; NP_001001935.1). Reported variants represent identical protein: NP_001244264.1, NP_001001935.1.
Applications	Pep ELISA, WB Species Tested: Human, Mouse, Rat, Pig
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; 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.
Peptide ELISA	Peptide ELISA: antibody detection limit dilution 1 to 128000.
Western Blot	Western Blot: Approx 55kDa band observed in Human, Mouse, Rat and Pig Heart lysates (calculated MW of 54.5kDa according to NP_001001935.1). Recommended concentration: 0.01-0.03µg/ml.
IHC	
Reference	Reference(s): Seth R, Keeley J, Abu-Ali G, Crook S, Jackson D, Ilyas M. The putative tumour modifier gene ATP5A1 is not mutated in human colorectal cancer cell lines but expression levels correlate with TP53 mutations and chromosomal instability. Journal of clinical pathology 2009 Jul 62 (7): 598-603..PMID: 19600330

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 end users! This product is sold for **Research Use Only**