

## Goat anti-carbonic anhydrase XII (aa188-199) Antibody

<b>Item Number</b>	dAP-3027
<b>Target Molecule</b>	Principle Name: carbonic anhydrase XII (aa188-199); Official Symbol: CA12; All Names and Symbols: CA12; carbonic anhydrase XII; CAXII; HsT18816; CA-XII; carbonate dehydratase XII; carbonic anhydrase 12; carbonic dehydratase; tumor antigen HOM-RCC-3.1.3; Accession Number (s): NP_001209.1; NP_996808.1; NP_001280571.1; Human Gene ID(s): 771; Non-Human GeneID(s):
<b>Immunogen</b>	SHLQHVYKYGQE, is from internal region This antibody is expected to recognize all reported isoforms (NP_001209.1; NP_996808.1; NP_001280571.1).
<b>Applications</b>	Pep ELISA, WB, IHC  Species Tested: Human
<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 45kDa band observed in Human Kidney lysates (calculated MW of 39.5kDa according to NP_001209.1). Recommended concentration: 0.3-1µg/ml.
<b>IHC</b>	Immunohistochemistry: In paraffin embedded Human Kidney shows membranous staining in some epithelial cells of convoluted tubules. Recommended concentration, 5-10µg/ml.
<b>Reference</b>	Reference(s): Muhammad E et al. Autosomal recessive hyponatremia due to isolated salt wasting in sweat associated with a mutation in the active site of Carbonic Anhydrase 12. Hum Genet. 2011 Apr;129(4):397-405..PMID: 21184099->

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**