



Goat anti-PRODH Antibody

Item Number	dAP-0818
Target Molecule	Principle Name: PRODH; Official Symbol: PRODH; All Names and Symbols: PRODH; proline dehydrogenase (oxidase) 1 ; HSPOX2; PIG6; PRODH1; PRODH2; SCZD4; TP53I6; FLJ33744; MGC148078; MGC148079; Proline oxidase, mitochondrial; p53 induced protein; proline dehydrogenase (proline oxidase); proline oxidase 2; tumor protein p53 ind; Accession Number (s): NP_057419.2; Human Gene ID(s): 5625; Non-Human GeneID(s): 19125 (mouse)
Immunogen	ERDGSNTNKRDKQYQ, is from internal region
Applications	Pep ELISA, IHC Species Tested: Human
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 16000.
Western Blot	Western Blot: Preliminary experiments gave bands at approx 85kDa and 25kDa in Human Brain lysates after 1µg/ml antibody staining. Please note that currently we cannot find an explanation in the literature for the bands we observe given the calculated size
IHC	Immunohistochemistry: In paraffin embedded Cerebellum shows mitochondrial staining in smaller neurons. Recommended concentration, 3-6µg/ml.
Reference	Reference(s): Paterlini M, Zakharenko SS, Lai WS, Qin J, Zhang H, Mukai J, Westphal KG, Olivier B, Sulzer D, Pavlidis P, Siegelbaum SA, Karayiorgou M, Gogos JA. Transcriptional and behavioral interaction between 22q11.2 orthologs modulates schizophrenia-related phenotypes in mice. Nat Neurosci. 2005

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**