

Goat anti-DIO2 Antibody

Item Number	dAP-1147
Target Molecule	Principle Name: DIO2; Official Symbol: DIO2; All Names and Symbols: DIO2; deiodinase, iodothyronine, type II ; 5DII; D2; SelY; TXDI2 ; thyroxine deiodinase, type II; type 2 iodothyronine deiodinase; type II iodothyronine deiodinaseN: type-II 5'deiodinase; Accession Number (s): NP_000784.2; NP_054644.1; NP_001007024.1; Human Gene ID(s): 1734; Non-Human GeneID(s): 13371 (mouse) 65162 (rat)
Immunogen	EVKKHQEQEDRC, is from internal region This antibody is expected to recognise both reported isoform a (NP_000784.2 and NP_054644.1) and isoform b (NP_001007024.1).
Applications	Pep ELISA, IHC Species Tested: Mouse
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: Preliminary experiments gave an approx 65-70kDa band in Human Heart and Thyroid lysates after 0.05µg/ml antibody staining. Please note that currently we cannot find an explanation in the literature for the band we observe given the calculat
IHC	Immunohistochemistry: Cryo-sectioned Mouse Brain (Hippocampus) shows staining in the granular layer of the dentate gyrus. Recommended concentration: 2-3µg/ml. Data obtained from customer.
Reference	Reference(s): Gumieniak O, Perlstein TS, Williams JS, Hopkins PN, Brown NJ, Raby BA, Williams GH. Ala92 Type 2 Deiodinase Allele Increases Risk for the Development of Hypertension. Hypertension. 2007 Jan 15; [Epub ahead of print] .PMID: 17224473 ->

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**