

Product datasheet for **AP20592PU-N**

DIO3 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Western blot: 1/500-1/1000.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of DIO3 protein. (region surrounding Glu66)
Formulation:	Phosphate Buffered Saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (>95% pure by SDS-PAGE). Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen.
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~30 kDa
Gene Name:	deiodinase, iodothyronine, type III
Database Link:	Entrez Gene 1735 Human P55073



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Background:

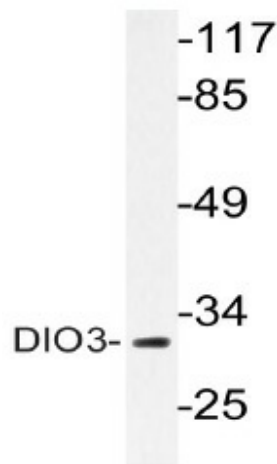
DIO3 (deiodinase, iodothyronine, type III), also known as D3, 5DIII, TXDI3 or DIOIII, is a single-pass type II membrane protein that belongs to the iodothyronine deiodinase family of proteins. Members of the iodothyronine deiodinase family play an important role in thyroid hormone metabolism. Expressed in placenta and various fetal tissues, DIO3 localizes to the cell membrane and plays an important role regulating the activity of thyroid hormones during morphogenesis. More specifically, DIO3 functions as the major physiologic inactivator of thyroid hormones, catalyzing the inner-ring deiodination (the removal of iodine groups) of 3,5,3',5'-tetraiodothyronine (T4) and 3,5,3'-triiodothyronine (T3) to their inactive metabolites 3,3',5'-triiodothyronine (RT3 or reverse T3) and 3,3'-diiodothyronine (T2), respectively. Through its ability to inactivate thyroid hormones, DIO3 effects thermoregulation, gene expression and energy metabolism, as well as a number of other important reactions in cell maintenance and differentiation.

Synonyms:

ITDI3, TXDI3, Type 3 DI, DIOIII, 5DIII

Protein Families:

Druggable Genome

Product images:

Western blot (WB) analysis of DIO3 antibody (Cat.-No.: AP20592PU-N) in extracts from HUVEC cells.