Recombinant Human IYD Protein, GST-tagged

Cat. No. IYD-4938H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human IYD full-length ORF (NP_981932.1, 1 a.a. - 289 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	This gene encodes an enzyme that catalyzes the oxidative NADPH-dependent deiodination of mono- and diiodotyrosine, which are the halogenated byproducts of thyroid hormone production. The N-terminus of the protein functions as a membrane anchor. Mutations in this gene cause congenital hypothyroidism due to dyshormonogenesis type 4, which is also referred to as deiodinase deficiency, or iodotyrosine dehalogenase deficiency, or thyroid hormonogenesis type 4. Alternative splicing results in multiple transcript variants. [provided by RefSeq
Molecular Mass	59.8 kDa
AA Sequence	MYFLTPILVAILCILVVWIFKNADRSMEKKKGEPRTRAEARPWVDEDLKDSSDLHQAE EDADEWQESEENVEHIPFSHNHYPEKEMVKRSQEFYELLNKRRSVRFISNEQVPME VIDNVIRTAGTAPSGAHTEPWTFVVVKDPDVKHKIRKIIEEEEEINYMKRMGHRWVTD LKKLRTNWIKEYLDTAPILILIFKQVHGFAANGKKKVHYYNEISVSIACGILLAALQNAG LVTVTTTPLNCGPRLRVLLGRPAHEKLLMLLPVGYPSKEATVPDLKRKPLDQIMVTV
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein)

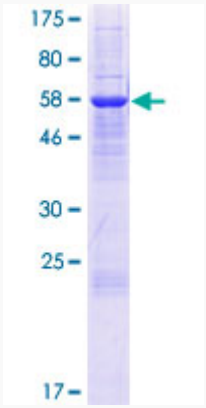
Tel: 1-631-559-9269 1-516-512-3133
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45-1 Ramsey Road, Shirley, NY 11967, USA

	Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	IYD iodotyrosine deiodinase [Homo sapiens (human)]
Official Symbol	IYD
Synonyms	IYD; iodotyrosine deiodinase; TDH4; IYD-1; DEHAL1; C6orf71; iodotyrosine deiodinase 1; iodotyrosine dehalogenase 1; EC 1.21.1.1
Gene ID	389434
mRNA Refseq	NM_001164694
Protein Refseq	NP_001158166
MIM	612025
UniProt ID	Q6PHW0

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Quality Control Testing	 12.5% SDS-PAGE Stained with Coomassie Blue

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