



# IOD2 rabbit pAb

Cat No.:ES11834

For research use only

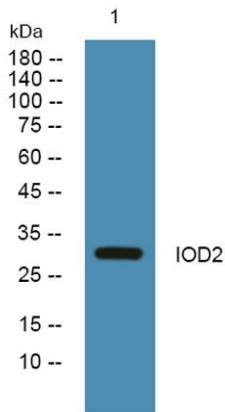
## Overview

<b>Product Name</b>	IOD2 rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	WB 1:500-2000 ELISA 1:5000-20000
<b>Immunogen</b>	Synthesized peptide derived from part region of human protein
<b>Specificity</b>	IOD2 Polyclonal Antibody detects endogenous levels of protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Type II iodothyronine deiodinase (EC 1.97.1.10) (5DII) (DIOII) (Type 2 DI) (Type-II 5'-deiodinase)
<b>Gene Name</b>	DIO2 ITDI2 TXDI2
<b>Cellular localization</b>	Membrane ; Single-pass membrane protein .
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	30kD
<b>Human Gene ID</b>	1734
<b>Human Swiss-Prot Number</b>	Q92813
<b>Alternative Names</b>	
<b>Background</b>	deiodinase, iodothyronine type II(DIO2) Homo sapiens The protein encoded by this gene belongs to the iodothyronine deiodinase family. It catalyzes the conversion of prohormone thyroxine (3,5,3',5'-tetraiodothyronine, T4) to the bioactive thyroid hormone (3,5,3'-triiodothyronine, T3) by outer ring 5'-deiodination. This gene is widely expressed, including in thyroid, placenta, pituitary





and brain. It is thought to be responsible for the 'local' production of T3, and thus important in influencing thyroid hormone action in these tissues. It has also been reported to be highly expressed in thyroids of patients with Graves disease, and in follicular adenomas. The intrathyroidal T4 to T3 conversion by this enzyme may contribute significantly to the relative increase in thyroidal T3 production in these patients. This protein is a selenoprotein containing the rare selenocysteine (Sec) amino acid at its active site, and may



Western blot analysis of lysates from KB cells, primary antibody was diluted at 1:1000, 4° over night

