

## DIO2 RABBIT PAB

**Cat.#:** S214290

**Product Name:** Anti-DIO2 Rabbit Polyclonal Antibody

**Synonyms:** D2; 5DII; SelY; DIOII; TXDI2

**UNIPROT ID:** Q92813 (Gene Accession - NP\_000784 )

**Background:** The protein encoded by this gene belongs to the iodothyronine deiodinase family. It activates thyroid hormone by converting the prohormone thyroxine (T<sub>4</sub>) by outer ring deiodination (ORD) to bioactive 3,3',5-triiodothyronine (T<sub>3</sub>). It is highly expressed in the thyroid, and may contribute significantly to the relative increase in thyroidal T<sub>3</sub> production in patients with Graves disease and thyroid adenomas. This protein contains selenocysteine (Sec) residues encoded by the UGA codon, which normally signals translation termination. The 3' UTR of Sec-containing genes have a common stem-loop structure, the sec insertion sequence (SECIS), which is necessary for the recognition of UGA as a Sec codon rather than as a stop signal. Alternative splicing results in multiple transcript variants encoding different isoforms.

**Immunogen:** Synthetic peptide of human DIO2

**Applications:** ELISA, IHC

**Recommended Dilutions:** IHC: 25-100; ELISA: 2000-5000

**Host Species:** Rabbit

**Clonality:** Rabbit Polyclonal

**Isotype:** Immunogen-specific rabbit IgG

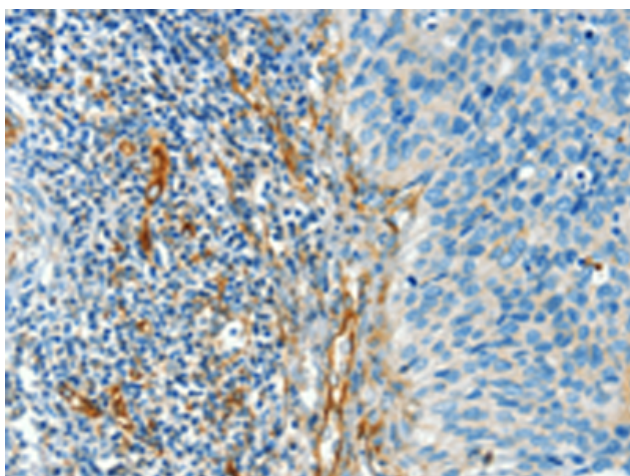
**Purification:** Antigen affinity purification

**Species Reactivity:** Human, Mouse, Rat

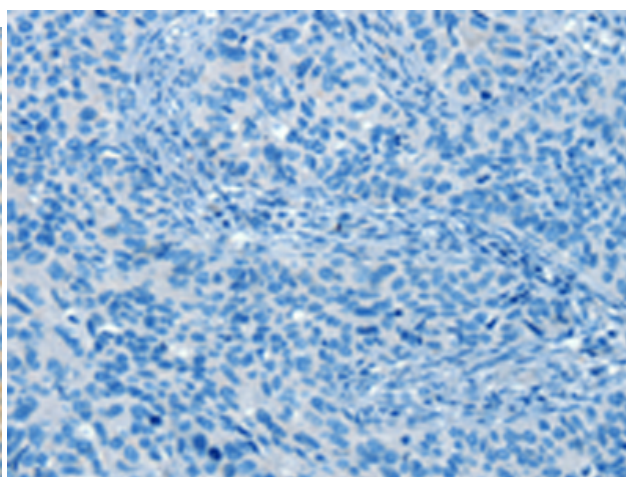
**Constituents:** PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150 mM NaCl, 0.05% Sodium Azide and 40% glycerol

**Research Areas:** Signal Transduction, Cancer, Metabolism, Neuroscience

**Storage & Shipping:** Store at -20°C. Avoid repeated freezing and thawing



Immunohistochemistry analysis of paraffin embedded Human cervical cancer tissue using 214290(DIO2 Antibody) at a dilution of 1/50(Cytoplasm).



In comparison with the IHC on the left, the same paraffin-embedded Human cervical cancer tissue is first treated with the synthetic peptide and then with 214290(Anti-DIO2 Antibody) at dilution 1/50.



# Product Description

Pioneering GTPase and Oncogene Product Development since 2010

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