

Anti-GPHA2 Antibody (9X922)

Product Details

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| Ig Type: | Rabbit IgG |
| Reactivity: | Human |
| Conjugation: | Unconjugated |
| Clone: | 9X922 |
| Purification: | Protein A |

Applications

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| Application: | ELISA |
| Recommended | ELISA: 1:5000-1:10000 |

Properties

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| Stability & Storage: | Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free. |
| Shipping: | Shipping with blue ice. |

Antigen Details

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| Immunogen: | Recombinant Protein: Human GPHA2 / glycoprotein hormone alpha 2 Protein (TMPY-03784) |
| Antigen Species: | Human |
| Synonyms: | glycoprotein hormone alpha 2; glycoprotein hormone α 2; A2; GPA2; ZSIG51 |

Research Background

GPHA2 is a member of the glycoprotein hormones subunit alpha family. Glycoprotein hormones consist of two subunits, the common alpha- and specific beta-subunits, which associate noncovalently to form a heterodimer. The alpha-subunit combines with four distinct beta-subunits giving rise to four biologically active hormones in the human: FSH, LH, TSH, and CG. GPHA2 and glycoprotein hormone beta 5 (GPHB5) can form a noncovalent heterodimer. GPHA2 can be detected in a variety of tissues. Recombinant A2/B5 heterodimeric glycoproteins activate human TSH receptors, but not LH and FSH receptors, and shows high affinity to TSH receptors in a radioligand receptor assay. The heterodimer also stimulates cAMP production and thymidine incorporation by cultured thyroid cells and increases serum thyroxine levels in TSH-suppressed rats in vivo. This new heterodimeric glycoprotein hormone was named Thyrostimulin based on its thyroid-stimulating activity. The expression of Thyrostimulin in the anterior pituitary known to express TSH receptors suggested a paracrine mechanism.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481