

## Anti-GPHA2 Antibody (7J791)

## Product Details

Ig Type:	Mouse IgG1
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	7J791
Purification:	Protein A

## Applications

Application:	ELISA
Recommended	ELISA: 1:1000-1:2000

## Properties

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

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

## 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.

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