

Anti-TSH Antibody (1H4G9)

CATALOG NO:	A1366-1000
AMOUNT:	1 mg
ALTRERNATE NAMES:	Thyroid-stimulating hormone subunit beta, TSH-B, Thyrotropin beta chain,
IMMUNOGEN:	Purified TSH from human pituitary
CLONALITY:	Monoclonal
CLONE:	1H4G9
HOST/ISOTYPE:	Mouse IgG1, κ
PURIFICATION:	Protein A purification
FORM:	Liquid
CONCENTRATION:	0.5 mg/ml
FORMULATION:	In PBS buffer, pH 7.4, containing 0.02% sodium azide
STORAGE CONDITIONS:	For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.
SPECIFICITY:	TSH monoclonal antibodies recognize TSH. They have no cross-reactivity with human HCG.
DESCRIPTION:	Thyrotropin-stimulating hormone (TSH) is a noncovalently linked glycoprotein heterodimer and is part of a family of pituitary hormones containing a common alpha subunit and a unique beta subunit that confers specificity. Free alpha and beta subunits have essentially no biological activity. TSH (Thyroid stimulating hormone) is secreted from cells in the anterior pituitary and it is indispensable for the control of thyroid structure and metabolism. Free alpha and beta subunits have essentially no biological activity. TSH Antibody is produced from the hybridoma resulting from fusion of Sp2/0 myeloma and lymphocytes obtained from mouse immunized with purified TSH from human pituitary.
APPLICATION:	These antibodies are perfect choice for in vitro diagnostic assay development. They are prepared for non-clinical research use only. The recommended pairs are based on our laboratory results. ELISA Capture: 0.5-10 μ g/ml ELISA Detection: 0.05-0.2 μ g/ml Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.

	Capture					
Detection	A1366 (1H4G9)	A1367 (2D10F6)	A1368 (2B9H4)	A1369 (26A7D2)	A1370 (28F7B8)	A1371 (3B12D11)
A1366 (1H4G9)		-	-	+++	-	-
A1367 (2D10F6)	-		-	++	-	
A1368 (2B9H4)	-	-		-	+	-
A1369 (26A7D2)	+	+	+		-	++
A1370 (28F7B8)	-	-	+++	-		-
A1371 (3B12D11)	-	-	-	-	-	

The above Data was achieved by Sandwich ELISA. '+' means reaction and '-' means no reaction. The number of '+' represents reaction intensity.

A

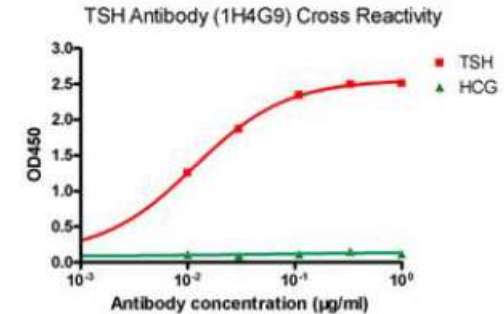


Fig. A. Cross-reactivity of TSH monoclonal antibody (1H4G9) by Indirect ELISA:

Assay protocol for Indirect ELISA:

1. Microplate was incubated with human TSH, or human HCG respectively, followed by 3 washing cycles.
2. Incubation with mouse anti-TSH antibody followed by 3 washing cycles.
3. Incubation with goat anti-mouse IgG conjugated to peroxidase, followed by 3 washing cycles.
4. Colorimetric determination of bound peroxidase activity.

B

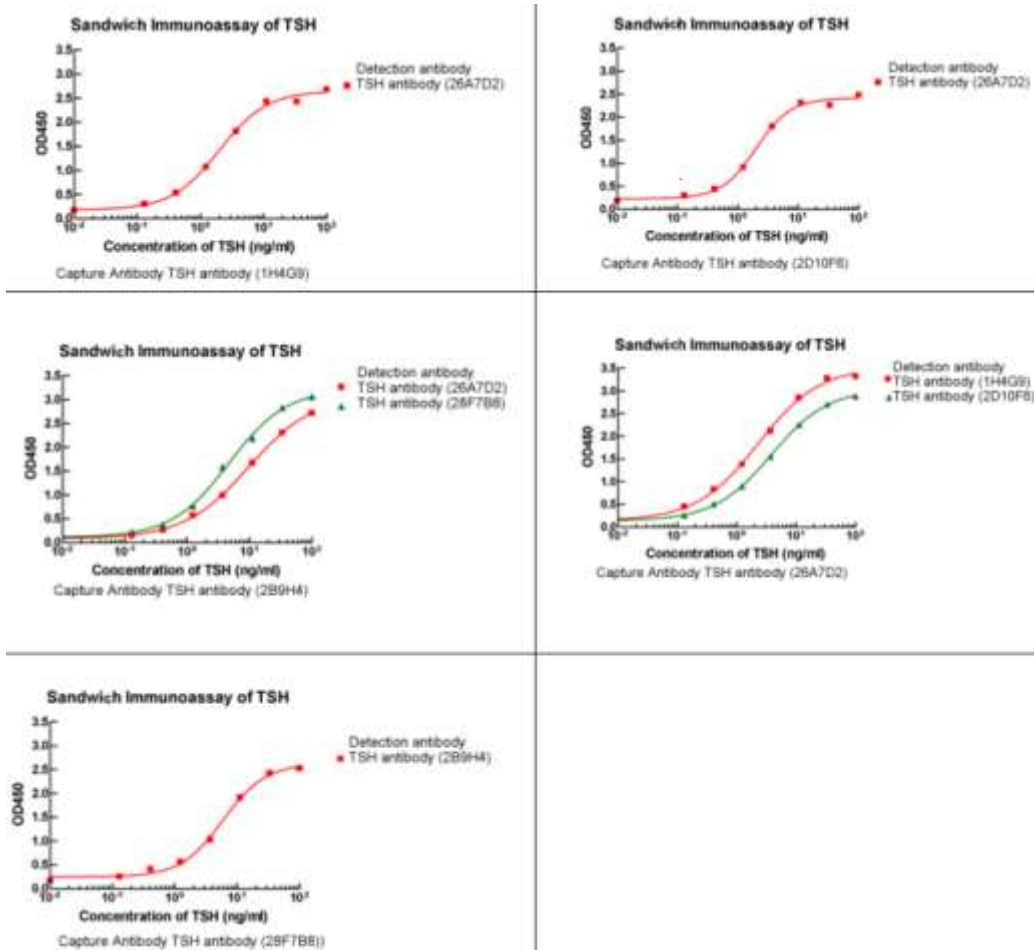


Fig. B. Antibody pairs analysis of TSH monoclonal antibodies by Sandwich ELISA

Assay protocol for sandwich ELISA:

1. Microplate was incubated with human TSH, or human HCG respectively, followed by 3 washing cycles.
2. Incubation with mouse anti-TSH antibody followed by 3 washing cycles.
3. Incubation with goat anti-mouse IgG conjugated to peroxidase, followed by 3 washing cycles.
4. Colorimetric determination of bound peroxidase activity.

RELATED PRODUCTS:

- Human Thyroid Stimulating Hormone (TSH) (Cat. No. P1031)
- Thyroid Stimulating Hormone (human) ELISA Kit (Cat. No. K7411)
- Thyroid Peroxidase [TPO] IgG (human) ELISA Kit (Cat. No. K5351)

FOR RESEARCH USE ONLY! Not to be used on humans.