

Anti-TSH antibody

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.6 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
Form	Liquid
Clonality	Polyclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Purification technique	Affinity purification Immunogen

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	1/200
Notes	-

Target data

[See full target information CGA](#) 

Function	Shared alpha chain of the active heterodimeric glycoprotein hormones thyrotropin/thyroid stimulating hormone/TSH, lutropin/luteinizing hormone/LH, follitropin/follicle stimulating hormone/FSH and choriogonadotropin/CG. These
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hormones bind specific receptors on target cells that in turn activate downstream signaling pathways.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Cytoplasmic staining pattern

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	TSH also known as thyrotropin or thyroid-stimulating hormone is a glycoprotein hormone with a molecular mass around 28 kDa. It is produced and secreted by the anterior pituitary gland. TSH plays a central role in the endocrine system by stimulating the thyroid gland to release thyroid hormones. These hormones are important for maintaining the body's metabolism growth and development.
Biological function summary	Thyroid-stimulating hormone acts by binding to receptors on the surface of thyroid follicular cells. This binding stimulates synthesis and secretion of thyroxine (T4) and triiodothyronine (T3). TSH is part of the hypothalamic-pituitary-thyroid axis a feedback loop that involves the hypothalamus and pituitary gland to regulate thyroid hormone levels. This axis is vital for maintaining metabolic stability in the body.
Pathways	Thyroid-stimulating hormone plays a significant role in the hypothalamic-pituitary-thyroid (HPT) axis. This pathway regulates the synthesis and release of thyroid hormones involving three main components: thyrotropin-releasing hormone (TRH) from the hypothalamus TSH from the pituitary and thyroid hormones from the thyroid gland. These components work together to ensure proper metabolic homeostasis. Additionally TSH impacts the JAK-STAT signaling pathway influencing cell proliferation and immunity response.
Associated diseases and disorders	Thyroid-stimulating hormone is closely associated with conditions like Hashimoto's thyroiditis and Graves' disease. In Hashimoto's an autoimmune disorder

antibodies attack the thyroid often leading to elevated TSH levels as the body attempts to stimulate the underactive thyroid. In contrast Graves' disease shows reduced TSH levels due to the thyroid being overactive. TSH measurement helps in diagnosing these conditions and understanding the dysregulation of thyroid hormones in these patients.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

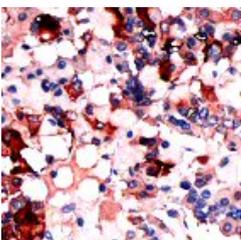
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

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1 product image



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TSH antibody (ab64378)

TSH Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-TSH antibody

ab64378, at a dilution of 1/200, staining TSH in formalin fixed, paraffin embedded human anterior pituitary tissue by Immunohistochemistry.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.