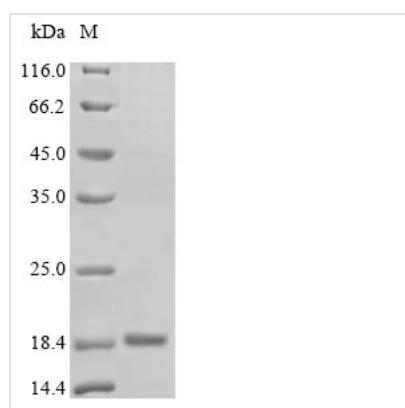




Recombinant Rat Thyrotropin subunit beta (Tshb)

Product Code	CSB-BP025130RA
Relevance	Indispensable for the control of thyroid structure and metabolism.
Abbreviation	Recombinant Rat Tshb protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P04652
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	FCIPTEYMMYVDRRECAAYCLTINTTICAGYCMTRDINGKLFPLPKYALSQDVCTY RDFTYRTVEIPGCPHHVAPYFSYPVALSCKCGKCN TDYSDCTHEAVKTN YCTK PQTFY
Research Area	Cancer
Source	Baculovirus
Target Names	Tshb
Protein Names	Thyroid-stimulating hormone subunit beta
Expression Region	21-132aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	16.9 kDa
Protein Length	Full Length of Mature Protein

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description



CUSABIO used the Rat Thyrotropin subunit beta (Tshb) DNA sequence encoding amino acids 21-132 to generate a fusion protein with an N-terminal 10xHis-tag and a C-terminal Myc-tag. The resulting recombinant full-length of mature protein was produced in the Baculovirus. It was subjected to SDS-PAGE (15% gel) under reducing conditions and presented a molecular mass band of about 19 kDa on the gel. The purity of the Tshb protein is greater than 85%. In addition to specific antibody synthesis, this recombinant Tshb protein may be used in the studies of Tshb-involved cancers.

Tshb, together with Tsha, makes up the thyrotropin (TSH). Tshb determines the specificity of TSH, which is responsible for the activation of the thyroid gland, playing a key role in controlling development and metabolism in mammals and other vertebrates. TSH is also involved in the specific developmental processes such as larval metamorphosis in amphibians, as well as larval and secondary metamorphoses in some teleost species. Additionally, TSH may regulate the functions in immune or reproductive systems through pleiotropic effects and multiple target tissues of thyroid hormones.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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