SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-TRH/Prothyroliberin antibody

Catalog Number: SL22872R

FOR RESEARCH USE ONLY

[DATASHEET]

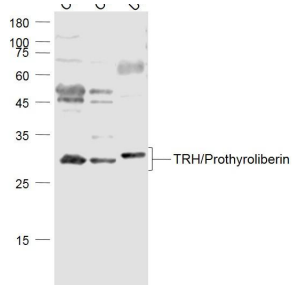
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	TRH/Prothyroliberin
Immunogen:	KLH conjugated synthetic peptide derived from human TRH/Prothyroliberin: 131-240/242
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse, Rat, (predicted: Human, Dog, Pig, Horse, Rabbit)
Predicted MW.:	24kDa
Subcellular Location:	Secretory protein
Background:	This gene encodes a member of the thyrotropin-releasing hormone family. Cleavage of the encoded proprotein releases mature thyrotropin-releasing hormone, which is a tripeptide hypothalamic regulatory hormone. The human proprotein contains six thyrotropin-releasing hormone tripeptides. Thyrotropin-releasing hormone is involved in the regulation and release of thyroid-stimulating hormone, as well as prolactin. Deficiency of this hormone has been associated with hypothalamic hypothyroidism. [provided by RefSeq, May 2013]. **Function:** Thyrotropin releasing hormone (TRH) is a tripeptide hormone that stimulates the release of thyroid stimulating hormone and prolactin by the anterior pituitary. TRH is produced by the hypothalamus and travels across the median eminence to the pituitary via the hypophyseal portal system. In addition to the brain, TRH can also be detected in other areas of the body including the gastrointestinal system and pancreatic islets.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Subcellular Location: Secreted **Tissue Specificity:** Hypothalamus. Expressed in the hair follicle epithelium (at protein level). **Similarity:** Belongs to the TRH family. **Database links:** **Entrez Gene:** 7200 Human **Entrez Gene:** 22044 Mouse **Entrez Gene:** 25569 Rat Omim: 275120 Human **SwissProt:** P20396 Human **SwissProt:** Q62361 Mouse **SwissProt:** P01150 Rat **Unigene:** 1363 Mouse **Unigene:** 22 Rat Thyrotropin-releasing hormone (TRH) is a hypothalamic hormone synthesized and secreted by the hypothalamus; it can promote the synthesis and secretion of pituitary thyrotropin. The synthesis and secretion of thyrotropin-releasing hormone can be regulated by thyroid hormones in the blood. Elevated thyroid hormones in the blood (hyperthyroidism) can inhibit the production of hypothalamic thyrotropin-releasing hormone (TRH), thereby reducing pituitary thyrotropin production; elevated thyroid hormones can also directly inhibit pituitary thyrotropin production. Decreased thyroid hormones in the blood (hypothyroidism) can stimulate hypothalamic thyrotropin-releasing hormone (TRH), thereby causing increased pituitary thyrotropin production; decreased thyroid hormones can also directly stimulate pituitary thyrotropin production.

[VALIDATION IMAGES]



Sample:
Lane 1: Cerebrum (Mouse) Lysate at 40 ug
Lane 2: Cerebrum (Rat) Lysate at 40 ug
Lane 3: Uterus (Rat) Lysate at 40 ug

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Primary: Anti-TRH/Prothyroliberin (SL22872R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 27 kD
Observed band size: 27 kD

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