

Recombinant Rat Tg Protein, His-tagged

Cat. No. Tg-2125R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Tg Protein (Cys1150-Cys1509) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Cys1150-Cys1509
Description	Enables several functions, including anion binding activity; chaperone binding activity; and identical protein binding activity. Involved in several processes, including response to lipopolysaccharide; thyroid hormone generation; and transcytosis. Located in several cellular components, including Golgi apparatus; endoplasmic reticulum; and perinuclear region of cytoplasm. Part of protein-containing complex. Used to study hypothyroidism and isolated growth hormone deficiency. Human ortholog(s) of this gene implicated in Graves' disease; autoimmune thyroiditis; goiter; and thyroid dyshormonogenesis 3. Orthologous to human TG (thyroglobulin).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 43.3 kDa Accurate Molecular Mass: 43 kDa
Purity	> 97%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

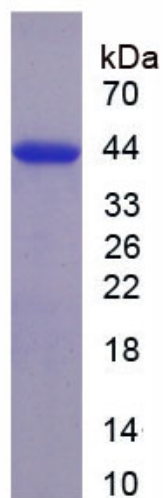
GENE INFORMATION

Gene Name	Tg thyroglobulin [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Tg
Synonyms	TG; thyroglobulin; Tgn;
Gene ID	24826
mRNA Refseq	NM_030988
Protein Refseq	NP_112250
UniProt ID	P06882

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