Mouse THRSP Antibody

Antigen Affinity-purified Polyclonal Goat IgG

Catalog Number: AF6574

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse THRSP in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant mouse THRSP Gly47-Leu150 Accession # Q62264
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

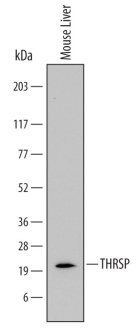
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.5 µg/mL	See Below

DATA

Western Blot



Detection of Mouse THRSP by Western Blot. Western blot shows lysates of mouse liver tissue. PVDF Membrane was probed with 0.5 µg/mL of Mouse THRSP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6574) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for THRSP at approximately 20 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

THRSP (Thyroid hormone inducible hepatic protein; also S14/SPOT 14) is an 18-20 kDa acidic nuclear protein that belongs to the SPOT14 family of molecules. It is expressed by lactating mammary epithelium, adipocytes and hepatocytes, and appears to promote the synthesis of long-chain fatty acids. Its synthesis is induced by thyroid hormone, insulin and carbohydrates. Mouse THRSP is 150 amino acids (aa) in length. The residues between aa 10-66 contain a Leu-zipper domain that mediates noncovalent homodimerization plus heterodimerization with MIG12. Other proteins known to bind to THRSP include the thyroid hormone receptor and Zac51. Heterointeractions are posited to positively influence p53-dependent gene activation. Two potential isoforms are reported. One contains a seven aa extension at the C-terminus, while another shows a deletion of aa 31-64. Over aa 47-150, mouse THRSP shares 78% and 94% aa identity with human and rat THRSP, respectively.

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