

#### DESCRIPTION

|                                                                                                                                                                                                         |                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Mouse                                                                                 |
| <b>Specificity</b>                                                                                                                                                                                      | Detects mouse THRSP in Western blots.                                                 |
| <b>Source</b>                                                                                                                                                                                           | Polyclonal Goat IgG                                                                   |
| <b>Purification</b>                                                                                                                                                                                     | Antigen Affinity-purified                                                             |
| <b>Immunogen</b>                                                                                                                                                                                        | <i>E. coli</i> -derived recombinant mouse THRSP<br>Gly47-Leu150<br>Accession # Q62264 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 nm       |
| <b>Formulation</b>                                                                                                                                                                                      | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide                          |
| *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |                                                                                       |

#### 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.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

#### 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.

#### PRODUCT SPECIFIC NOTICES

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