

#### DESCRIPTION

|                                                                                                                                                                                                         |                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Mouse                                                                                        |
| <b>Specificity</b>                                                                                                                                                                                      | Detects mouse ZIP4H/Tex11 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 ZIP4H/Tex11<br>Met768-Leu947<br>Accession # Q14AT2 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 532<br>Excitation Wavelength: 534 nm<br>Emission Wavelength: 553 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

ZIP4 homolog (ZIP4H), also known as testis expressed sequence 11 (Tex11) is a 947 amino acid (aa) X chromosome-encoded protein that is selectively expressed in primordial male germ cells. It associates with Nbs1 of the Mre11 protein complex which results in localization to areas of synaptonemal contact between meiotic chromosomes. During meiosis, ZIP4H promotes sister chromatid synapsis and crossover in response to programmed double stranded DNA breaks. ZIP4H deficiency leads to increased spermatocyte apoptosis and male sterility. Alternate splicing in mouse generates an additional isoform with a substitution (aa 691-707) and truncation (aa 708-947) at the C-terminus. Within aa 768-947, mouse ZIP4H shares 44% and 73% aa sequence identity with human and rat ZIP4H, respectively.

#### PRODUCT SPECIFIC NOTICES

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