

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse ZIP4H/Tex11 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse ZIP4H/Tex11 Met768-Leu947 Accession # Q14AT2
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	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.

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