

Mouse ZIP4H/Tex11 Antibody

Monoclonal Rat IgG_{2B} Clone # 236734

Catalog Number: MAB5627

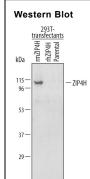
DESCRIPTION		
Species Reactivity	Mouse	
Specificity	Detects mouse ZIP4H/Tex11 in Western blots.	
Source	Monoclonal Rat IgG _{2B} Clone # 236734	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	E. coli-derived recombinant mouse ZIP4H/Tex11 Met768-Leu947 Accession # Q14AT2	
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 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.

_	ecommended oncentration	Sample
Western Blot 0.	5 μg/mL	See Below

DATA



Detection of Mouse ZIP4H/Tex11 by Western Blot.

Western blot shows lysates of 293T human embryonic kidney cell line non-transfected or transfected with recombinant mouse ZIP4H or recombinant human ZIP4H, PVDF membrane was probed with 0.5 μg/mL Rat Anti-Mouse ZIP4H/Tex11 Monoclonal Antibody (Catalog # MAB5627) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band for ZIP4H/Tex11 was detected at approximately 110 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.	
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

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.

