

#5419 Store at -20°C

## ZFX (L28B6) Mouse mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H	Endogenous	135	Mouse IgG2b	#P17010	7543

<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<b>Storage</b>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
<b>Specificity / Sensitivity</b>	ZFX (L28B6) Mouse mAb detects endogenous levels of total ZFX protein. This antibody may cross-react with ZFY protein.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a recombinant fragment of human ZFX.	
<b>Background</b>	The ZFX (X-linked zinc finger protein) gene is expressed from the inactive X chromosome and is structurally similar to its homologue on the Y chromosome, ZFY (1). Transcripts of ZFX and ZFY encode proteins composed of a highly acidic amino-terminal domain and a carboxy-terminal zinc-finger motif that is commonly associated with nucleic acid-binding proteins (2). Both ZFY and ZFX are probable transcriptional activators and may function in sex determination (3). Multiple alternatively spliced transcript variants of ZFX, encoding different isoforms, have been identified and may be functionally distinct (2). Conditional gene targeting studies in mouse have suggested ZFX is also required for self-renewal of embryonic and hematopoietic stem cells (4). ZFX has also been suggested to play a role in proliferation and expansion of B cells, and could contribute to lymphocyte homeostasis (5).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>Schneider-Gädick, A. et al. (1989) <i>Cell</i> 57, 1247-58.</li> <li>Schneider-Gädick, A. et al. (1989) <i>Nature</i> 342, 708-11.</li> <li>Palmer, M.S. et al. (1990) <i>Proc Natl Acad Sci U S A</i> 87, 1681-5.</li> <li>Galan-Caridad, J.M. et al. (2007) <i>Cell</i> 129, 345-57.</li> <li>Arenzana, T.L. et al. (2009) <i>Blood</i> 113, 5857-67.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
<b>Applications Key</b>	<b>WB:</b> Western Blotting
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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