cell-cell contacts through deubiquitination-dependent stabilization of molecules involved in maintaining the integrity of both adherens and tight junctions. Indeed, USP9X has been found to associate with AF-6, the ß-catenin-E-cadherin complex, and EFA6 (8-11). Research studies have also demonstrated that USP9X is

an integral component of the TGF-β/BMP signaling cascade by opposing TRIM33-mediated monoubiquitination of SMAD4 (12). USP9X is overexpressed in a variety of human cancers and contributes to enhanced cell survival, in part, through its ability to deubiquitinate and stabilize the McI-1 oncoprotein (13). There is some evidence, however, that suggests the role of USP9X in tumorigenesis is context dependent. Research studies have implicated USP9X in a tumor suppressor role during the early stages of pancreatic ductal adenocarcinoma (PDAC) and in an oncogenic role during advanced stages of

Revision 5				-,		<u></u>	
USP9X (D4Y7W) Rabbit mAb 800 Store at -500 S							
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For Research Use Only.	Not for Use in	Diagnostic Proc	edures.				
Applications: WB, W-S, IP, IHC-P, IF- IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 270	Source/Isotype: Rabbit IgG	UniProt ID: #Q93008	Entrez-Gene Id: 8239	
Product Usage	Ар	plication				Dilution	
Information	We	Western Blotting				1:1000	
	Sin	nple Western™				1:10 - 1:50	
	Imr	nunoprecipitation				1:50	
	Imr	Immunohistochemistry (Paraffin)				1:100	
	Imr	Immunofluorescence (Immunocytochemistry)				1:400	
Storage		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.					
	For	For a carrier free (BSA and azide free) version of this product see product #63924.					
Specificity / Sensit		USP9X (D4Y7W) Rabbit mAb recognizes endogenous levels of total USP9X protein.					
Species predicted react based on 100 sequence homolog	0%	ine, Dog, Horse					
Source / Purification	on Mor resi	loclonal antibody is dues surrounding A		nunizing animals with a 1 USP9X protein.	synthetic peptide co	prresponding to	
Background	(UB subi a we and whic expi beg	Es) and deubiquitin families-USP, UCH, ell-conserved cataly polyubiquitin conjug ch is essential for no ression is also critic inning to be elucida	ating enzymes (E OTU, MJD, and tic domain with c gates. USP9X is ormal eye develop al for normal mar ted. There is mou	on are reversible proces DUBs) respectively (1,2) JAMM. Ubiquitin-specifi ysteine peptidase activi the mammalian homolo pment and viability of th nmalian development (5 unting evidence that US or dependent ctabilization	DUBs are categori c protease 9, X-link ty, which allows for g of the <i>Drosophila</i> e early fly embryo (3 5-7), many of its sub P9X functions in the	ized into five ed (USP9X) possesses cleavage of ubiquitin <i>fat-facets</i> (<i>faf</i>) gene, 3,4). While USP9X pstrates are only e formation of epithelial	

PDAC (14,15).

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Background References

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