at -	SLP-2 (D5N4E) Rabbit mAb		Cell Signaling		
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Applications: WB, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 40	Source/Isotype: Rabbit IgG	UniProt ID: #Q9UJZ1	Entrez-Gene Id: 30968	
Product Usage Information	Wes	plication stern Blotting nunofluorescence (I	mmunocytochem	nistry)		Dilution 1:1000 1:800	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensiti	ivity SLP-	-2 (D5N4E) Rabbit I	mAb recognizes	endogenous levels of to	tal SLP-2 protein.		
Source / Purificatio		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu346 of human SLP-2 protein.					
Background Background Refere	is pa ident stom heter cardi with mem inclu mitod asso ences 1. Da 2. Há 3. Ch 4. Da 5. Wa 6. Ch 7. To 8. Mi 9. Wa 10. Liu	 Stomatin-like protein 2 (SLP-2 and also known as STOML2) is a lipid-anchored mitochondrial protein that is part of a large protein complex that regulates mitochondrial biogenesis and function. Proteomic studies identified SLP-2 as a widely expressed mitochondria-enriched protein (1). As a member of both the stomatin family and stomatin-prohibitin-flotillin-HfLC/K (SPFH) superfamily of proteins, SLP-2 forms large hetero-oligomeric complexes with other mitochondrial proteins, including prohibitin, mitofusin 2, and cardiolipin (2, 3). SLP-2 contains a highly conserved SPFH domain that mediates its ability to associate with the mitochondrial inner membrane and form specialized membrane microdomains. As an inner membrane organizer of other mitochondrial proteins, SLP-2 performs multiple mitochondrial functions, including regulation of mitochondrial biogenesis, energy/calcium homeostasis, translation, and mitochondrial-mediated cellular stress responses (3, 4, 5, 6, 7, 8). Enhanced SLP-2 expression is also associated with several human cancers, including gallbladder, rectal, and gastric cancer (9, 10, 11). 1. Da Cruz, S. et al. (2003) <i>J Biol Chem</i> 278, 41566-71. 2. Hájek, P. et al. (2007) <i>J Biol Chem</i> 278, 41566-71. 3. Christie, D.A. et al. (2011) <i>Mol Cell Biol</i> 31, 3845-56. 4. Da Cruz, S. et al. (2010) <i>Cell Calcium</i> 47, 11-8. 5. Wang, Y. et al. (2009) <i>Cancer Biol Ther</i> 8, 1651-8. 6. Christie, D.A. et al. (2012) <i>J Immunol</i> 189, 4349-60. 7. Tondera, D. et al. (2017) <i>PLoS One</i> 12, e0179967. 9. Wang, W.X. et al. (2014) <i>Tumour Biol</i> 35, 419-23. 10. Liu, Z. et al. (2014) <i>Oncol Rep</i> 31, 153-60. 11. Bartolome, A. et al. (2016) <i>APMIS</i> 124, 271-7. 			a. Proteomic studies er of both the , SLP-2 forms large tofusin 2, and ability to associate s. As an inner ondrial functions, tion, and xpression is also		
Species Reactivity	Speci	ies reactivity is dete	rmined by testing	in at least one approve	ed application (e.g., w	restern blot).	
Western Blot Buffe	•	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 IF	-IC: Immunofluo	rescence (Immunocytoc	hemistry)		
Cross-Reactivity Ke	X: Xe	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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SLP-2 (D5N4E) Rabbit mAb (#73956) Datasheet Without Images Cell Signaling Technology

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