

SLP-2 (D2I9X) XP® Rabbit mAb



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Applications: W, IHC-P	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 40	Source/Isotype: Rabbit IgG	UniProt ID: #Q9UJZ1	Entrez-Gene Id: 30968
Product Usage Information		Application Western Blotting Immunohistochemistry (Paraffin)			Dilution 1:1000 1:100	
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.				
Specificity/Sensitivity		SLP-2 (D2I9X) XP [®] Rabbit mAb recognizes endogenous levels of total SLP-2 protein. Bands of unknown identity are detected by western blot at 80 kDa.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val182 of human SLP-2 protein.				
Background		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 prohibtin, 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).				
Background References		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> 282, 5670-81. 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. (2009) <i>EMBO J</i> 28, 1589-600. 8. Mitsopoulos, P. 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.				
Species Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).				

Western Blot BufferIMPORTANT: 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 W: Western Blotting IHC-P: Immunohistochemistry (Paraffin)

Cross-Reactivity Key H: Human M: Mouse R: Rat

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