e at -20C	Palladin (D9H2) Rabbit mAb			
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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FOR Research Use Unit	y. NOUTOF USE IN	Diagnostic Procedures.

	eactivity:Sensitivity:H M REndogenous	<b>MW (kDa):</b> 140, 90	Source/Isotype: Rabbit IgG	UniProt ID: #Q8WX93	Entrez-Gene Id: 23022		
Product Usage Information	<b>Application</b> Western Blotting Immunohistochemistr	y (Paraffin)		1	2000) 2000 2000		
Storage	7.5), 150 mM NaCl, 100 o not aliquot the antibody	50 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than iquot the antibody.					
Specificity / Sensitivity	<b>y</b> Palladin (D9H2) Rabbi	Palladin (D9H2) Rabbit mAb recognizes endogenous levels of total palladin protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro1043 of human palladin protein.					
Background	role in cellular migratio podosomes and invade the widely expressed 1 basal-like breast carcir migration of kidney cel and myogenesis (6). S associated fibroblasts of pancreatic ductal ad	The actin-associated scaffold protein, palladin, is associated with multiple actin-rich structures, and plays a role in cellular migration and invasion (1). Palladin regulates the formation of invasive structures called podosomes and invadopodia (1-3). Alternative splicing results in at least three palladin isoforms, including the widely expressed 140 kDa and 90 kDa isoforms (2). Palladin has been shown to promote invasion in basal-like breast carcinoma models (4). Palladin is also upregulated in injured kidneys, and promotes migration of kidney cells to facilitate repair (5). In differentiating muscle cells, palladin regulates migration and myogenesis (6). Several research studies have focused on palladin expression and function in cancerassociated fibroblasts (CAFs). Researchers have shown that expression of palladin in stromal fibroblasts of pancreatic ductal adenocarcinoma is an indication of the effectiveness of chemotherapy (7). The cancer associated transcription factor Twist1 may require palladin and collagen alpha1 for its metastatic effect in fibroblasts (8).					
Background Referenc	<ol> <li>Najm, P. and El-Siba</li> <li>Goicoechea, S.M. et</li> <li>von Nandelstadh, P.</li> <li>Chang, E.H. et al. (2</li> <li>Nguyen, N.U. and W</li> <li>Sato, D. et al. (2016)</li> </ol>	<ol> <li>Goicoechea, S.M. et al. (2008) <i>Eur J Cell Biol</i> 87, 517-25.</li> <li>Najm, P. and El-Sibai, M. (2014) <i>Cell Adh Migr</i> 8, 29-35.</li> <li>Goicoechea, S.M. et al. (2014) <i>Oncogene</i> 33, 1265-73.</li> <li>von Nandelstadh, P. et al. (2014) <i>Mol Biol Cell</i> 25, 2556-70.</li> <li>Chang, E.H. et al. (2015) <i>Sci Rep</i> 5, 7695.</li> <li>Nguyen, N.U. and Wang, H.V. (2015) <i>PLoS One</i> 10, e0124762.</li> <li>Sato, D. et al. (2016) <i>PLoS One</i> 11, e0152523.</li> <li>García-Palmero, I. et al. (2016) <i>Oncogene</i>, .</li> </ol>					
Species Reactivity	Species reactivity is def	termined by testin	g in at least one approve	ed application (e.g., we	estern blot).		
Western Blot Buffer	estern Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1× 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				% w/v BSA, 1X TBS,		
Applications Key	WB: Western Blotting I	IHC-P: Immunohis	stochemistry (Paraffin)				
Cross-Reactivity Key	X: Xenopus Z: zebrafis	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>					
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