ក្ខ X Cavin-1 (D1P6W) Rabbit mAb





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Applications: W, IP, IHC-P, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 50	Source/Isotype: Rabbit IgG	UniProt ID: #Q6NZI2	Entrez-Gene Id: 284119		
Product Usage Information		Application Western Blotting Immunoprecipitation Immunohistochemist Immunofluorescence	-	istry)		Dilution 1:1000 1:200 1:1000 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.						
Specificity/Sen	sitivity	Cavin-1 (D1P6W) Rabbit mAb recognizes endogenous levels of total cavin-1 protein. Based on the sequence of the immunogenic peptide, this antibody is not expected to cross-react with other cavin family members.						
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala177 of human cavin-1 protein.						
Background		Caveolae ("little caves") are 60-80 nm pits representing specialized plasma membrane domains in many cell types. The principal protein component of caveolae is caveolin, a small integral membrane protein composed of three family members, including the widely expressed caveolin-1 and -2, and the muscle-specific caveolin-3 (1). Caveolin proteins are required for caveolae formation and serve as scaffolding proteins for the recruitment of signaling proteins. Research studies in cavelolin-deficient mice implicate caveolin proteins in several pathologies, including diabetes, cancer, cardiovascular diseases, atherosclerosis, pulmonary disease, and muscular dystrophies (2). The cavin proteins (cavin-1, -2, -3, and -4 in mammals) are a family of caveolae-associated integral membrane proteins involved in the biogenesis and stability of caveolae. Cavin proteins form homo- or hetero-oligomers whose composition is tissue-specific, which may confer distinct functions of caveolae in various tissues (3). Cavin-1 (PTRF), which is widely expressed, is required for caveolae formation and is thought to play roles in lipid metabolism, adipocyte differentiation, and IGF-1 receptor signaling (4-6). Research studies involving prostate cancer suggest that expression of cavin-1 is related to tumor progression and angiogenesis/lymphangiogenesis (7-8).						
Background Re	eferences	1. Bastiani, M. and Par 2. Cohen, A.W. et al. (2 3. Kovtun, O. et al. (20 4. Ding, S.Y. et al. (201 5. Perez-Diaz, S. et al. 6. Hamoudane, M. et a 7. Nassar, Z.D. et al. (2 8. Nassar, Z.D. et al. (2	004) Physiol Rev 84 15) J Cell Sci 128, 12 4) J Biol Chem 289, 3 (2014) FASEB J 28, 3 al. (2013) J Endocrin 013) Nat Rev Urol 1	, 1341-79. 69-78. 8473-83. 769-79. <i>ol Invest</i> 36, 204-8. 0, 529-36.				
Species Reactiv	/ity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	uffer	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 Ke	ey	W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivit	у Кеу	H: Human						
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