FoxC1 (D8A6) Rabbit mAb



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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 75	Source/Isotype: Rabbit IgG	UniProt ID: #Q12948	Entrez-Gene Id: 2296
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:200	
Storage				s), 150 mM NaCl, 100 μg, ot aliquot the antibody.		rol and less than
Specificity/Sensitivity		FoxC1 (D8A6) Rabbit mAb recognizes endogenous levels of total FoxC1 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Tyr64 of human FoxC1 protein.				
Background		Forkhead box (Fox) proteins are a family of evolutionarily conserved transcription factors defined by the presence of a winged helix DNA-binding domain called a Forkhead box (1). In humans, there are over 40 known Fox protein family members, divided into 19 subfamilies, which have evolved to regulate gene transcription in diverse and highly specialized biological contexts throughout development (2). Mutations that disrupt the expression of Fox gene family members have consequently been implicated in a broad array of human disorders, including immunological dysfunction, infertility, speech/language disorders, and cancer (3,4). FoxC1 (FKHL7, FREAC3) is one of two mammalian FoxC subfamily members. Along with FoxC2, it is expressed in paraxial mesoderm where it functions to promote somitogenesis, myogenesis, and vascular development, possibly under Wnt/β-catenin regulation (5). Mutations in FoxC1 are implicated in anterior segment dysgenesis (ASD) disorders, including congenital glaucoma and Axenfeld-Rieger syndrome (6). Research studies have shown that alterations in FoxC1 expression are linked to breast cancer invasiveness (7,8) and have been shown to modulate proliferation and migration of breast cancer cells <i>in vitro</i> (9).				
Background References		 Myatt, S.S. and Lam, E.W. (2007) Nat Rev Cancer 7, 847-59. Jackson, B.C. et al. (2010) Hum Genomics 4, 345-52. Hannenhalli, S. and Kaestner, K.H. (2009) Nat Rev Genet 10, 233-40. Benayoun, B.A. et al. (2011) Trends Genet 10, 224-32. Savage, J. et al. (2010) Differentiation 79, 31-40. Weisschuh, N. et al. (2008) Clin Genet 74, 476-80. Dejeux, E. et al. (2010) Mol Cancer 9, 68. Muggerud, A.A. et al. (2010) Breast Cancer Res 12, R3. Ray, P.S. et al. (2010) Cancer Res 70, 3870-6. 				
Species Reactivi	ty	Species reactivity is det	ermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X				

TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

H: Human M: Mouse R: Rat

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