

#2763 Store at -20°C

MESDC2 (C22F5) Rabbit mAb


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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R Mk	Endogenous	25, 26	Rabbit IgG	#Q14696	23184

Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:50
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	MESDC2 (C22F5) Rabbit mAb detects endogenous levels of total MESDC2 protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a recombinant human MESDC2 protein.	
Background	Mesoderm development candidate genes 1 (MESDC1) and 2 (MESDC2) were identified from the mesoderm development (MESD) deletion interval located on mouse chromosome 7 (1). MESD acts as a chaperone for low-density lipoprotein receptor (LDLR) proteins in the ER, and particularly associates with Wnt signaling pathway coreceptors LRP5 and LRP6 (2). MESD is required for proper LRP5/6 folding and maturation to the cell surface, which plays a major role in Wnt signaling (3-5). The interaction between MESD and LRP5 is disrupted by a G171V mutation in LRP5 that is found in individuals with a familial phenotype characterized by high bone mass (6).	
Background References	1. Wines, M.E. et al. (2001) <i>Genomics</i> 72, 88-98. 2. Hsieh, J.C. et al. (2003) <i>Cell</i> 112, 355-67. 3. Herz, J. and Marschang, P. (2003) <i>Cell</i> 112, 289-92. 4. Li, Y. et al. (2006) <i>FEBS Lett</i> 580, 5423-8. 5. Li, Y. et al. (2005) <i>J Cell Sci</i> 118, 5305-14. 6. Zhang, Y. et al. (2004) <i>Mol Cell Biol</i> 24, 4677-84.	
Species Reactivity	Species reactivity is determined by testing in at least one approved 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	WB: Western Blotting IP: Immunoprecipitation	
Cross-Reactivity Key	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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