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## KISS1R (D9D7C) Rabbit mAb



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	tivity: Sensitivity: H Endogenous	<b>MW (kDa):</b> 40-140	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #Q969F8	Entrez-Gene Id: 84634		
Product Usage Information Storage	<b>Application</b> Western Blotting Immunoprecipita Supplied in 10 ml		5), 150 mM NaCl, 100 µg	<b>Dilution</b> 1:1000 1:50 /ml BSA, 50% glycer	rol and less than		
-		0.02% sodium azide. Store at $-20^{\circ}$ C. Do not aliquot the antibody.					
Specificity/Sensitivity		KISS1R (D9D7C) Rabbit mAb recognizes endogenous levels of total KISS1R protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human KISS1R protein.					
Background Background Reference	and plays a major as an orphan rece amidated peptide humans, amidate preoptic area, wit deletion of either disorder characte abnormal sexual secretion, indicat gonadotropic axis in cancer cells by KISS1R and its lig potential, likely by SISS1R and its lig SISS1R and its lig SISS1R and its lig SISS1R and its lig SISS1R and SISS1R and	The KiSS-1 receptor (KISS1R, GPR54) is a G protein-coupled receptor that inhibits cancer cell metastasis and plays a major role in gonadotropic axis physiology (1). The GPR54 protein was originally described as an orphan receptor homologous to the galanin receptor, and later identified as a receptor for amidated peptide products of the metastasis suppressor gene <i>KiSS-1</i> ( <i>KISS1</i> , Kisspeptin-1) (2,3). In humans, amidated kisspeptin ligands are produced predominantly in cells of the arcuate nucleus and preoptic area, with expression controlled by gonadal hormones (4). Research studies show that deletion of either the KiSS-1 receptor or <i>KiSS-1</i> gene leads to hypogonadotropic hypogonadism, a disorder characterized by reduced levels of circulating testosterone and gonadotropins, as well as abnormal sexual maturation (5,6). The administration of kisspeptins potently stimulates gonadotropin secretion, indicating that KISS1R and kisspeptins play a major role in the physiology of the gonadotropic axis (7). Additional research demonstrates that KISS1R and kisspeptins inhibit metastasis in cancer cells by inhibiting cell motility (8). However, other studies indicate that increased expression of KISS1R and its ligands in human breast tumors correlates with higher tumor grade and metastatic potential, likely by engaging MMP-9 activation via transactivation of EGFR (9). 1. Beck, B.H. and Welch, D.R. (2010) <i>Eur J Cancer</i> 46, 1283-9. 2. Lee, D.K. et al. (1909) <i>FEBS Lett</i> 446, 103-7. 3. Ohtaki, T. et al. (2001) <i>Nature</i> 411, 613-7. 4. Lehman, M.N. et al. (2010) <i>Brain Res</i> 1364, 90-102. 5. de Roux, N. et al. (2003) <i>Proc Natl Acad Sci U S A</i> 100, 10972-6. 6. d'Anglemont de Tassigny, X. et al. (2007) <i>Proc Natl Acad Sci U S A</i> 104, 10714-9. 7. Gottsch, M.L. et al. (2004) <i>Endocrinology</i> 145, 4073-7.					
	-	2012) Cancer metastas 2011) PLoS One 6, e215	-				
Species Reactivity	Species reactivity	is determined by testin	g in at least one approv	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	<b>W:</b> Western Blotti	W: Western Blotting IP: Immunoprecipitation					
Cross-Reactivity Key	H: Human	H: Human					
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