Revision 1

Store at -20C

#4518

MIS-R2 Antibody Cell Signaling TECHNOLOGY* Orders: 877-616-CELL (2355) orders@cellsignal.com

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H	Sensitivity: Transfected Only	MW (kDa): 75-85	Source/Isotype: Rabbit	UniProt ID: #Q16671	Entrez-Gene Id: 269
Product Usage Information Storage	2	Application Western Blotting Immunoprecipitation	ium HEPES (nH 7)	5) 150 mM NaCl 100 ug	Dilution 1:1000 1:50 (ml BSA and 50% gl)	vcerol Store at -
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		MIS-R2 Antibody detects transfected levels of human MIS-R2 protein.				
Species predicted to react based on 100% sequence homology		Monkey				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu315 of human MIS-R2. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		The type II receptor for Müllerian inhibiting substance (MIS), also known as the anti-Müllerian hormone receptor 2 (AMHR2), binds a hormone-ligand that directs the incomplete development of Müllerian ducts in male embryos (1,2). MIS-R2 is a single transmembrane serine/threonine kinase receptor of the TGF-β receptor family involved in the phosphorylation of shared type 1 receptors and Smad transcriptional regulators (3,4). MIS produced by the fetal testis promotes the regression of Müllerian ducts that would otherwise differentiate into the uterus and fallopian tubes in the male fetus (5). Corresponding MIS-R2 gene mutations can cause persistent Müllerian duct syndrome type 2 (PMDS-2), a form of male pseudohermaphroditism characterized by a failure of Müllerian duct regression (6). The presence of MIS-R2 is observed in ovarian cancer cell lines that respond positively to treatment with recombinant MIS, suggesting that both receptor and ligand may be important therapeutic tools (7).				
Background References		 Visser, J.A. et al. (1995) <i>Biochem Biophys Res Commun</i> 215, 1029-36. di Clemente, N. et al. (1994) <i>Mol Endocrinol</i> 8, 1006-20. Teixeira, J. et al. (1996) <i>Endocrinology</i> 137, 160-5. Gouédard, L. et al. (2000) <i>J Biol Chem</i> 275, 27973-8. Jamin, S.P. et al. (2002) <i>Nat Genet</i> 32, 408-10. Imbeaud, S. et al. (1996) <i>Hum Mol Genet</i> 5, 1269-77. Masiakos, P.T. et al. (1999) <i>Clin Cancer Res</i> 5, 3488-99. 				
Species Reacti	vity	Species reactivity is det	termined 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				
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