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PGRMC1 (D6M5M) XP® Rabbit



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

Applications: WB, IP, IHC-P, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 25	Source/Isotype: Rabbit IgG	UniProt ID: #O00264	Entrez-Gene Id: 10857
Product Usage Information	Ap	plication				Dilution
	We	estern Blotting				1:1000
	Imi	munoprecipitation				1:50
	Imi	munohistochemistry	(Paraffin)			1:200
	lmı	munofluorescence (Immunocytochen	mistry)		1:100
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. <i>Do not aliquot the antibody.</i>				
Specificity / Sens		PGRMC1 (D6M5M) XP^{\otimes} Rabbit mAb recognizes endogenous levels of total PGRMC1 protein. This antibody does not cross-react with PGRMC2 protein.				
Source / Purificat		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human PGRMC1 protein.				
Background	com RNA tran stuc resp rese fusio deta actic	The progesterone receptor membrane component 1 (PGRMC1, Hpr6.6) was originally identified as a component of a progesterone-binding protein complex that also contains plasminogen activator inhibitor 1 RNA binding protein (PAIRBP1, SERBP1) (1,2). The structure of PGRMC1 protein includes a single transmembrane region and a carboxy-terminal cytochrome b5 heme-binding domain (3,4). Research studies confirm that PGRMC1 binds heme as well as binding and regulating cytochrome P450 enzymes responsible for the metabolism of clinical drugs and endogenous signaling molecules (5-7). While early research studies were equivocal on the ability of PGRMC1 to bind progesterone, studies using PGRMC1-fusion proteins clearly demonstrate that PGRMC1 binds progesterone with high affinity (2,8). Studies detailing expression of PGRMC1 in granulosa cells suggest that PGRMC1 mediates the anti-apoptotic actions of progesterone and that this protein is part of a signal transduction pathway that regulates granulosa cell function (9).				
Background Refe	2. P 3. G 4. M 5. C 6. H 7. O	 Cahill, M.A. (2007) J Steroid Biochem Mol Biol 105, 16-36. Peluso, J.J. et al. (2008) Endocrinology 149, 534-43. Gerdes, D. et al. (1998) Biol Chem 379, 907-11. Mifsud, W. and Bateman, A. (2002) Genome Biol 3, RESEARCH0068. Crudden, G. et al. (2006) J Pharmacol Exp Ther 316, 448-55. Hughes, A.L. et al. (2007) Cell Metab 5, 143-9. Oda, S. et al. (2011) Drug Metab Dispos 39, 2057-65. Peluso, J.J. et al. (2009) J Clin Endocrinol Metab 94, 2644-9. Peluso, J.J. (2013) Front Neurosci 7, 99. 				

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 IHC-P: Immunohistochemistry (Paraffin)

IF-IC: Immunofluorescence (Immunocytochemistry)

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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Limited Uses

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