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Applications: W	Reactivity: H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 37	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P52895	Entrez-Gene Id: 1646		
Product Usage Information		Application Western Blotting		<b>Dilution</b> 1:1000				
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store 20°C. Do not aliquot the antibody.		ycerol. Store at –					
Specificity/Sensitivity		AKR1C2 Antibody recognizes endogenous levels of total AKR1C2 protein.						
			es are produced by immunizing animals with a synthetic peptide corresponding to ng Val61 of human AKR1C2 protein. Antibodies are purified by protein A and peptide aphy.					
Background		Aldo-keto reductase family 1 member C2 (AKR1C2) is a member of a large superfamily of aldo-keto reductases that metabolize an array of substrates in a NADPH-dependent manner. AKR1C2 is the 3-α-hydroxysteroid dehydrogenase (3α-HSD) responsible for metabolizing and inactivating the androgen hormone 5α-dihydrotestosterone (DHT) to 3α-androstanediol (1). Research studies demonstrate an increase in AKR1C2 expression in cases of advanced prostate cancer (2). Both AKR1C2 and the related reductase, AKR1C3, are implicated in enhancing PI3K/Akt signaling in prostate cancer by reducing prostaglandin D2 to the more stable 9α, 11β-PGF2α (2). In addition, research studies demonstrate an increase in AKR1C2 expression in some ovarian endometriosis specimens, suggesting the participation of AKR1C2 in the promotion of progesterone metabolism in ovarian endometriosis (3).						
Background Re	eferences	1. Rizner, T.L. et al. (2003) <i>Chem Biol Interact</i> 143-144, 401-9. 2. Wang, S. et al. (2008) <i>Mol Cell Endocrinol</i> 289, 60-6. 3. Hevir, N. et al. (2011) <i>Chem Biol Interact</i> 191, 217-26.						
Species Reactiv	vity	Species reactivity is de	etermined by testing	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	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 K	ey	W: Western Blotting						
Cross-Reactivit	ту Кеу	H: Human M: Mouse R: Rat						
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