StAR (D10H12) XP[®] Rabbit mAb





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Applications: W, IP, IF-IC	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 28	Source/Isotype: Rabbit IgG	UniProt ID: #P49675	Entrez-Gene Id: 6770		
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence (Immunocytochemistry)			Dilution 1:1000 1:50 1:100 - 1:200			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				rol and less than		
Specificity/Ser	cificity/Sensitivity StAR (D10H12) XP [®] Rabbit mAb recognizes endogenous levels of total StAR prote				total StAR protein.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg272 of human StAR protein.						
Background		Steroidogenic acute regulatory protein (StAR) plays a significant role in cholesterol transport from the cytoplasmic outer membrane to the inner mitochondrial membrane (1). The 37 kDa precursor is cleaved to generate an active 28 kDa protein capable of facilitating cholesterol metabolism into pregnenolone (2,3). StAR is prevalently expressed in mitochondria of steroid-producing adrenal and gonadal tissue (3). Abnormalities in StAR gene expression are impacted in autosomal Lipoid Congenial Adrenal Hyperplasia (LCAH) resulting in defects in pregnenolone and cortisol synthesis (4). The mechanism of cholesterol binding to StAR has yet to be elucidated (4).						
Background R	eferences	1. Caron, K.M. et al. (1997) <i>Proc Natl Acad Sci U S A</i> 94, 11540-5. 2. Bose, H.S. et al. (1999) <i>Proc Natl Acad Sci U S A</i> 96, 7250-5. 3. Manna, P.R. et al. (2002) <i>Biol Reprod</i> 67, 1393-404. 4. Roostaee, A. et al. (2008) <i>Biochem J</i> 412, 553-62.						
Species Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot E	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 IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat						
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