

Androgen Receptor (AR-V7 Specific) (E3O8L) Rabbit mAb



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

Applications: W, W-S, IP, ChIP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 80	Source/Isotype: Rabbit IgG	UniProt ID: #P10275-3	Entrez-Gene Id: 367	
Product Usage Information		Application Western Blotting Simple Western™ Immunoprecipitation Chromatin IP			Dilution 1:1000 1:50 - 1:250 1:200 1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity/Sensitivity		Androgen Receptor (AR-V7 Specific) (E3O8L) Rabbit mAb recognizes endogenous levels of total AR-V7 protein. This antibody does not cross-react with full-length AR protein, but immunoprecipitates a 120 kDa protein of unknown identity.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu639 of human androgen receptor (V7 isoform) protein.					
Background		Androgen receptor (AR), a zinc finger transcription factor belonging to the nuclear receptor superfamily, is activated by phosphorylation and dimerization upon ligand binding (1). This promotes nuclear localization and binding of AR to androgen response elements in androgen target genes. Research studies have shown that AR plays a crucial role in several stages of male development and the progression of prostate cancer (2,3).					
		The AR3 or AR-V7 isoform, which lacks the typical ligand binding domain, is created through the alternative splicing of cryptic exons (4-5). AR-V7 is frequently expressed in castration-resistant prostate cancer (CRPC) and while dependent on the activity of the full-length androgen receptor (AR-FL), AR-V7 can activate a completely distinct transcriptional program (6-8). While enzalutamide and abiraterone have been beneficial in treating CRPC through the ligand binding domain of AR-FL, resistance in patients has been shown to be associated with AR-V7 detection in circulating tumor cells (9-12). Studies probing into mechanisms of overcoming this resistance are currently being explored and may help in stratifying patient populations for more personalized therapies (13-15).					
Background References		2. Avila, D.M. et al. (2003). Montgomery, J.S. et al. (4009). Cal. Cal. Cal. Cal. Cal. Cal. Cal. Cal	I Al-Azzawi, F. (2009) <i>Maturitas</i> 63, 142-8. M. et al. (2001) <i>J. Steroid. Biochem. Mol. Biol.</i> 76, 135-142. mery, J.S. et al. (2001) <i>J. Pathol.</i> 195, 138-146. t al. (2009) <i>Cancer Res</i> 69, 16-22. et al. (2009) <i>Cancer Res</i> 69, 2305-13. p. P.A. et al. (2010) <i>Proc Natl Acad Sci U S A</i> 107, 16759-65. et al. (2010) <i>J Clin Invest</i> 120, 2715-30. t al. (2012) <i>Cancer Res</i> 72, 3457-62. p. I. et al. (2012) <i>N Engl J Med</i> 367, 1187-97. p. J.S. et al. (2011) <i>N Engl J Med</i> 364, 1995-2005. p. J.S. et al. (2013) <i>N Engl J Med</i> 368, 138-48. p. arakis, E.S. et al. (2014) <i>N Engl J Med</i> 371, 1028-38. et al. (2014) <i>Clin Cancer Res</i> 20, 3198-3210. p. M. et al. (2016) <i>Oncotarget</i> 7, 63065-63081. p. et al. (2017) <i>Science</i> 355, 78-83.				

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 W: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation ChIP: Chromatin IP

Cross-Reactivity Key H: Human

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