

Store at  
-20C  
#88677**STEAP1 (D8B2V) Rabbit mAb**
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<b>Applications:</b> W, IP	<b>Reactivity:</b> H R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 30	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q9UHE8	<b>Entrez-Gene Id:</b> 26872
<b>Product Usage Information</b>		<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:50	
<b>Storage</b>		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. Do not aliquot the antibody.				
<b>Specificity/Sensitivity</b>		STEAP1 (D8B2V) Rabbit mAb recognizes endogenous levels of total STEAP1 protein. This antibody also recognizes overexpressed STEAP1B isoform 1 protein and may recognize endogenous STEAP1B isoform 1 protein.				
<b>Source / Purification</b>		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human STEAP1 protein.				
<b>Background</b>		Six transmembrane epithelial antigen of the prostate 1 (STEAP1) is a transmembrane protein abundantly expressed in normal prostate epithelial cells (1). It is a metalloendoreductase that reduces Fe <sup>3+</sup> to Fe <sup>2+</sup> and Cu <sup>2+</sup> to Cu <sup>1+</sup> (2). STEAP1 is also reportedly overexpressed in multiple tumor types, and has been used as a cell surface biomarker for prostate cancer and Ewing's sarcoma (3-6). Peptides derived from STEAP1 protein have been shown to induce an antigen-specific cytotoxic T lymphocyte (CTL) response that can kill tumor cells expressing STEAP1 (7). These findings are the basis for research studies examining the efficacy of antibody-drug conjugates (ADCs) targeting STEAP1 (8,9).				
<b>Background References</b>		1. Hubert, R.S. et al. (1999) <i>Proc Natl Acad Sci U S A</i> 96, 14523-8. 2. Ohgami, R.S. et al. (2006) <i>Blood</i> 108, 1388-94. 3. Grunewald, T.G. et al. (2012) <i>Mol Cancer Res</i> 10, 52-65. 4. Grunewald, T.G. et al. (2012) <i>Ann Oncol</i> 23, 2185-90. 5. Ihlaseh-Catalano, S.M. et al. (2013) <i>Histopathology</i> 63, 678-85. 6. Gomes, I.M. et al. (2014) <i>Urol Oncol</i> 32, 53.e23-9. 7. Rodeberg, D.A. et al. (2005) <i>Clin Cancer Res</i> 11, 4545-52. 8. Williams, S.P. et al. (2016) <i>Oncotarget</i> 7, 25103-12. 9. Sukumaran, S. et al. (2016) <i>AAPS J</i> , .				

**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 nonfat dry milk, 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 **R:** Rat**Trademarks and Patents**

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