



# STEAP2 Monoclonal Antibody

<b>Catalog No</b>	YP-mAb-04228
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse
<b>Applications</b>	WB
<b>Gene Name</b>	STEAP2
<b>Protein Name</b>	Metalloreductase STEAP2
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human STEA2. AA range:431-480
<b>Specificity</b>	STEAP2 Monoclonal Antibody detects endogenous levels of STEAP2 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Monoclonal, mouse,IgG
<b>Purification</b>	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	Western Blot: 1/500 - 1/2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	STEAP2; PCANAP1; STAMP1; Metalloreductase STEAP2; Prostate cancer-associated protein 1; Protein up-regulated in metastatic prostate cancer; PUMPCn; Six-transmembrane epithelial antigen of prostate 2; SixTransMembrane protein of prostate 1
<b>Calculated Molecular Weight</b>	56kD
<b>Cell Pathway</b>	Endosome membrane ; Multi-pass membrane protein . Cell membrane ; Multi-pass membrane protein .
<b>Tissue Specificity</b>	Expressed at high levels in prostate and at significantly lower levels in heart, brain, kidney, pancreas, and ovary.
<b>Function</b>	cofactor:FAD.,function:Metalloreductase that has the ability to reduce both Fe(3+) to Fe(2+) and Cu(2+) to Cu(1+). Uses NAD(+) as acceptor.,similarity:Belongs to the STEAP family.,similarity:Contains 1 ferric oxidoreductase domain.,tissue specificity:Expressed at high levels in prostate and at significantly lower levels in heart, brain, kidney, pancreas, and ovary.,
<b>Background</b>	STEAP2 metalloreductase(STEAP2) Homo sapiens This gene is a member of the STEAP family and encodes a multi-pass membrane protein that localizes to the Golgi complex, the plasma membrane, and the vesicular tubular structures in the cytosol. A highly similar protein in mouse has both ferrireductase and cupric reductase activity, and stimulates the cellular uptake of both iron and copper in

vitro. Increased transcriptional expression of the human gene is associated with prostate cancer progression. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008],

**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**