

**Anti-STEAP2 Antibody**  
**Rabbit polyclonal antibody to STEAP2**  
**Catalog # AP60819****Specification**

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**Anti-STEAP2 Antibody - Product Information**

Application	<b>WB, IF</b>
Primary Accession	<a href="#">Q8NFT2</a>
Other Accession	<a href="#">Q8BWB6</a>
Reactivity	<b>Human, Mouse, Rat, Bovine</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>56056</b>

**Anti-STEAP2 Antibody - Additional Information****Gene ID** 261729**Other Names**

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

**Target/Specificity**

Recognizes endogenous levels of STEAP2 protein.

**Dilution**WB~~WB (1/500 - 1/2000), IH (1/50 - 1/200), IF/IC (1/50 - 1/100)  
IF~~WB (1/500 - 1/2000), IH (1/50 - 1/200), IF/IC (1/50 - 1/100)**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-STEAP2 Antibody - Protein Information****Name** STEAP2**Synonyms** PCANAP1, STAMP1**Function**

Integral membrane protein that functions as a NADPH-dependent ferric-chelate reductase, using NADPH from one side of the membrane to reduce a Fe(3+) chelate that is bound on the other side of the membrane (By similarity). Mediates sequential transmembrane electron transfer from NADPH to FAD and onto heme, and finally to the Fe(3+) chelate (By similarity). Can also reduce

Cu(2+) to Cu(1+) (By similarity).

#### Cellular Location

Endosome membrane {ECO:0000250|UniProtKB:Q8BWB6}; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein

#### Tissue Location

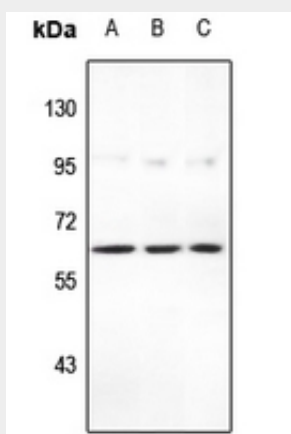
Expressed at high levels in prostate and at significantly lower levels in heart, brain, kidney, pancreas, and ovary.

### Anti-STEAP2 Antibody - Protocols

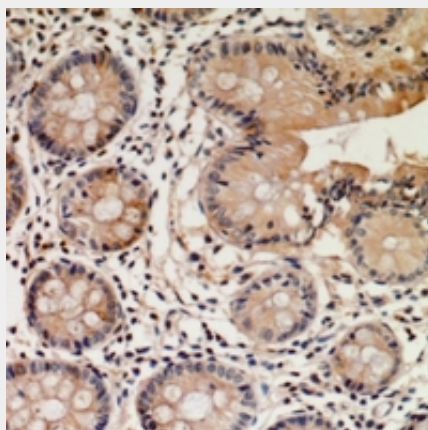
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

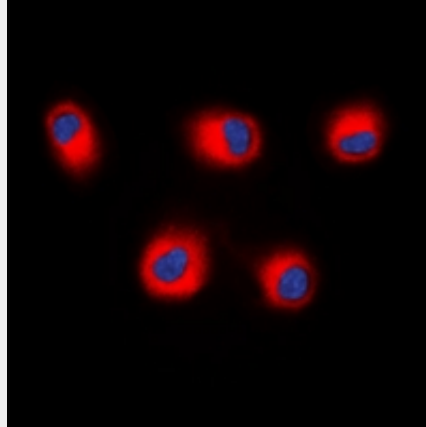
### Anti-STEAP2 Antibody - Images



Western blot analysis of STEAP2 expression in PC3 (A), HEK293T (B), A549 (C) whole cell lysates.



Immunohistochemical analysis of STEAP2 staining in human colon cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of STEAP2 staining in HEK293T cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

#### **Anti-STEAP2 Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human STEAP2. The exact sequence is proprietary.