

**Anti-STEAP2 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV11864****Specification**

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**Anti-STEAP2 Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | IHC, IF, WB            |
| Primary Accession | <a href="#">Q8NFT2</a> |
| Reactivity        | Human, Mouse, Rat      |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Isotype           | Rabbit IgG             |
| Calculated MW     | 56056                  |

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

|                     |                                                                                                       |
|---------------------|-------------------------------------------------------------------------------------------------------|
| Positive Control    | <b>WB: HEK293T, mouse spleen, rat spleen cell lysate; IHC: human colon cancer; IFC: HEK293T cells</b> |
| Application & Usage | <b>WB; 1:500 - 1:2000, IHC; 1:50 - 1:200, IF/IC; 1:50 - 1:100</b>                                     |
| Alias Symbol        | <b>STEAP2</b>                                                                                         |

**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

**Appearance**

Colorless liquid

**Formulation**

In 0.42% Potassium phosphate; 0.87% Sodium chloride; pH 7.3; 30% glycerol and 0.01% sodium azide

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

Anti-STEAP2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**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**

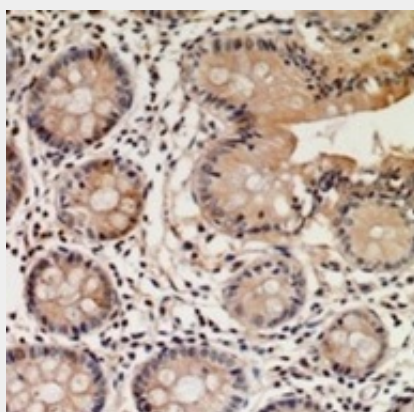
Expressed at high levels in prostate and at significantly lower levels in heart, brain, kidney, pancreas, and ovary.

**Anti-STEAP2 Antibody - Protocols**

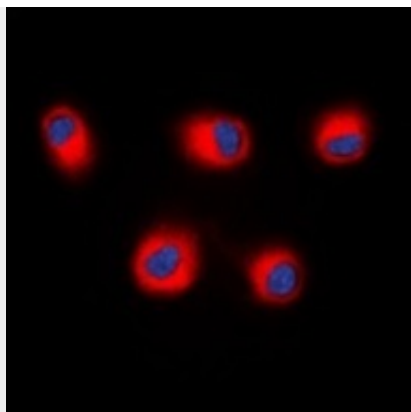
Provided below are standard protocols that you may find useful for product applications.

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

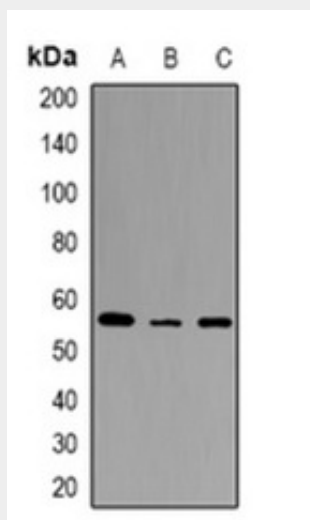
**Anti-STEAP2 Antibody - Images**



Immunohistochemical analysis of STEAP2 staining in H.colon cancer formalin fixed paraffin embedded tissue section.



Immunofluorescent analysis of STEAP2 staining in HEK293T cells.



Western blot analysis of STEAP2 expression in HEK293T(A); M.splenn(B); R.spleen(C) whole cell lysates.

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

The six-transmembrane epithelial antigen of prostate 2 (STEAP2) is a member of the STEAP family. The STEAP proteins are metalloreductases that has the ability to reduce both  $\text{Fe}^{3+}$  to  $\text{Fe}^{2+}$  and  $\text{Cu}^{2+}$  to  $\text{Cu}^{1+}$ . Uses  $\text{NAD}^{+}$  as acceptor