

STEAP2 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP5583c**Specification**

STEAP2 Antibody (Center) Blocking peptide - Product InformationPrimary Accession
Other Accession[Q8NFT2](#)
[NP_001035756.1](#)**STEAP2 Antibody (Center) Blocking peptide - Additional Information****Gene ID** 261729**Other Names**

Metalloreductase STEAP2, 1161-, 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, STEAP2, PCANAP1, STAMP1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

STEAP2 Antibody (Center) Blocking peptide - 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.

STEAP2 Antibody (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

STEAP2 Antibody (Center) Blocking peptide - Images

STEAP2 Antibody (Center) Blocking peptide - Background

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.

STEAP2 Antibody (Center) Blocking peptide - References

Vaghjani, R.J., et al. Tissue Eng Part A 15(8):2073-2083(2009) Denoed, F., et al. Genome Res. 17(6):746-759(2007) Ohgami, R.S., et al. Blood 108(4):1388-1394(2006)