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STEAP2 Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS11074

Specification

STEAP2 Antibody (Internal) - Product Information

Application	**IHC**
Primary Accession	Q8NFT2
Reactivity	**Human, Mouse, Rabbit, Hamster, Monkey, Horse, Guinea Pig, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**56kDa KDa**

STEAP2 Antibody (Internal) - Additional Information

Gene ID 261729

Other Names
Metalloreductase STEAP2, 1.16.1.-, 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

Target/Specificity
Human STEAP2. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage
Long term: -70°C; Short term: +4°C

Precautions
STEAP2 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

STEAP2 Antibody (Internal) - 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.

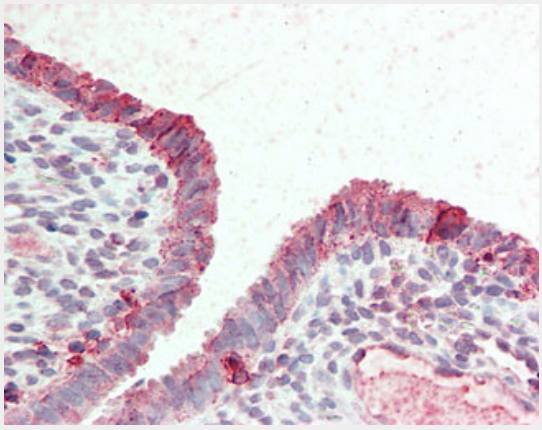
Volume
50 µl

STEAP2 Antibody (Internal) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

STEAP2 Antibody (Internal) - Images



Anti-STEAP2 antibody ALS11074 IHC of human uterus.

STEAP2 Antibody (Internal) - Background

Metalloreductase that has the ability to reduce both Fe(3+) to Fe(2+) and Cu(2+) to Cu(1+). Uses NAD(+) as acceptor (By similarity).

STEAP2 Antibody (Internal) - References

Korkmaz K.S.,et al.J. Biol. Chem. 277:36689-36696(2002).
Porkka K.P.,et al.Lab. Invest. 82:1573-1582(2002).
Zhang Z.,et al.Submitted (JUL-2002) to the EMBL/GenBank/DDBJ databases.
Clark H.F.,et al.Genome Res. 13:2265-2270(2003).
Hillier L.W.,et al.Nature 424:157-164(2003).