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STEAP1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP14380a

Specification

STEAP1 Antibody (N-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q9UHE8
Other Accession	NP_036581.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**39851**
Antigen Region	**2-31**

STEAP1 Antibody (N-term) - Additional Information

Gene ID 26872

Other Names
Metalloreductase STEAP1, 1161-, Six-transmembrane epithelial antigen of prostate 1, STEAP1, PRSS24, STEAP

Target/Specificity
This STEAP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 2-31 amino acids from the N-terminal region of human STEAP1.

Dilution
WB~~1:1000
IHC-P~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
STEAP1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

STEAP1 Antibody (N-term) - Protein Information

Name STEAP1

Synonyms PRSS24, STEAP

Function Does not function as a metalloreductase due to the absence of binding sites for the electron-donating substrate NADPH. Promotes Fe(3+) reduction when fused to the NADPH-binding domain of STEAP4.

Cellular Location
Endosome membrane {ECO:0000250|UniProtKB:Q9CWR7}; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein

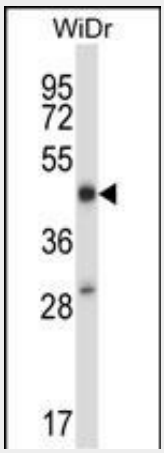
Tissue Location
Ubiquitously expressed. Highly expressed in prostate tumors.

STEAP1 Antibody (N-term) - Protocols

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

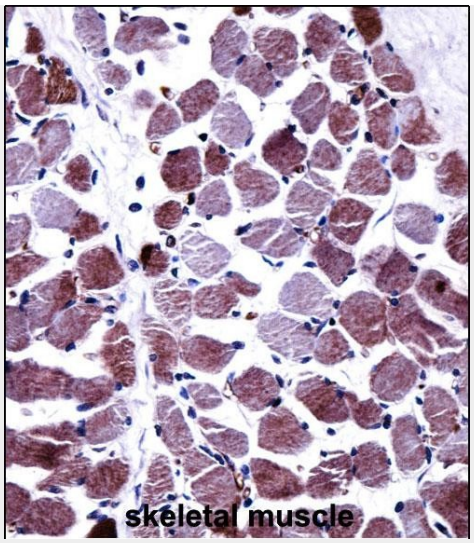
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

STEAP1 Antibody (N-term) - Images



STEAP1 Antibody (N-term) (Cat. #AP14380a) western blot analysis in WiDr cell line lysates (35ug/lane).This demonstrates the STEAP1 antibody detected the STEAP1 protein (arrow).

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STEAP1 Antibody (N-term) (AP14380a)immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of STEAP1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

STEAP1 Antibody (N-term) - Background

This gene is predominantly expressed in prostate tissue, and is found to be upregulated in multiple cancer cell lines. The gene product is predicted to be a six-transmembrane protein, and was shown to be a cell surface antigen significantly expressed at cell-cell junctions.

STEAP1 Antibody (N-term) - References

Valenti, M.T., et al. J. Endocrinol. Invest. 33(4):244-249(2010)
Johnatty, S.E., et al. PLoS Genet. 6 (7), E1001016 (2010) :
Vaghjiani, R.J., et al. Tissue Eng Part A 15(8):2073-2083(2009)
Mavaddat, N., et al. Cancer Epidemiol. Biomarkers Prev. 18(1):255-259(2009)
Maia, C.J., et al. Endocrine 34 (1-3), 108-116 (2008) :