10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

STEAP1 / STEAP Antibody (aa1-70, clone J2D2)

Mouse Monoclonal Antibody
Catalog # ALS12605

Specification

STEAP1 / STEAP Antibody (aa1-70, clone J2D2) - Product Information

Application	**IHC, IF**
Primary Accession	Q9UHE8
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**40kDa KDa**

STEAP1 / STEAP Antibody (aa1-70, clone J2D2) - Additional Information

Gene ID 26872

Other Names
Metalloreductase STEAP1, 1.16.1.-, Six-transmembrane epithelial antigen of prostate 1, STEAP1, PRSS24, STEAP

Reconstitution & Storage
Long term: -20°C; Short term: +4°C; Avoid freeze-thaw cycles.

Precautions
STEAP1 / STEAP Antibody (aa1-70, clone J2D2) is for research use only and not for use in diagnostic or therapeutic procedures.

STEAP1 / STEAP Antibody (aa1-70, clone J2D2) - 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.

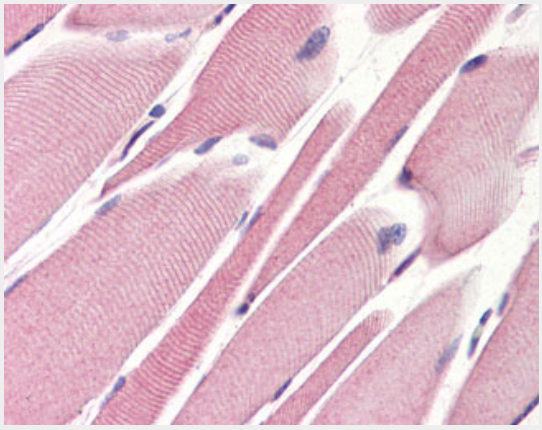
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

STEAP1 / STEAP Antibody (aa1-70, clone J2D2) - Protocols

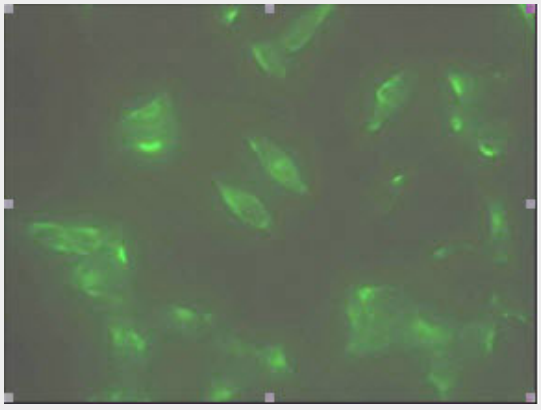
Provided below are standard protocols that you may find useful for product applications.

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

STEAP1 / STEAP Antibody (aa1-70, clone J2D2) - Images



Anti-STEAP1 antibody IHC of human skeletal muscle.



Immunofluorescence staining of human LNCap cell colony with monoclonal antihuman STEAP1 antibody

STEAP1 / STEAP Antibody (aa1-70, clone J2D2) - 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).

STEAP1 / STEAP Antibody (aa1-70, clone J2D2) - References

Hubert R.S.,et al.Proc. Natl. Acad. Sci. U.S.A. 96:14523-14528(1999).
Hillier L.W.,et al.Nature 424:157-164(2003).

Scherer S.W.,et al.Science 300:767-772(2003).
Ohgami R.S.,et al.Blood 108:1388-1394(2006).