

## STEAP1 Antibody

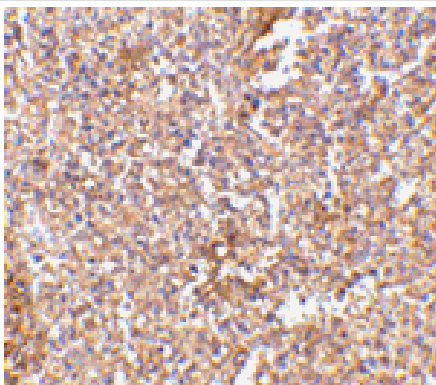
Catalog No: #24566

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

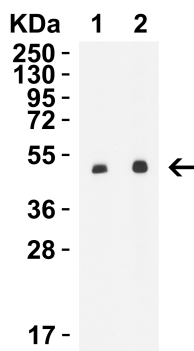
## Description

Product Name	STEAP1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	ELISA, WB, IHC-P, IF
Species Reactivity	Hu Ms Rt
Specificity	This STEAP1 antibody does not cross-react with other STEAP proteins.
Immunogen Type	Peptide
Immunogen Description	Raised against a 16 amino acid peptide from near the center of human STEAP1.
Target Name	STEAP1
Other Names	Six transmembrane epithelial antigen of prostate 1, STEAP
Accession No.	Swiss-Prot:Q9UHE8Gene ID:26872
Uniprot	Q9UHE8
GeneID	26872;
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

## Images

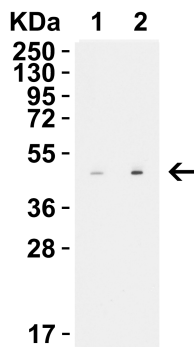


Immunohistochemistry of STEAP1 in human spleen tissue with STEAP1 antibody at 2.5 ug/mL.



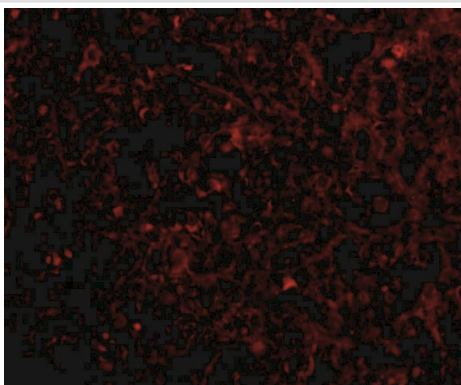
#### WB Validation in Mouse Brain

Loading: 10 ug of lysate per lane. Antibodies: Steap1 , 1 h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Exposure: 30 sec Lane 1: 0.5 ug/mL Lane 2: 1 ug/mL



#### WB Validation in Rat Brain

Loading: 10 ug of lysate per lane. Antibodies: Steap1 , 1 h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Exposure: 30 sec Lane 1: 0.5 ug/mL Lane 2: 1 ug/mL



Immunofluorescence of STEAP1 in human spleen tissue with STEAP1 antibody at 20 ug/mL.

## Background

The six-transmembrane epithelial antigen of prostate 1 (STEAP1) was the first member of a family of metalloredoxases identified as cell-surface antigens in prostate tissue. The normal function of STEAP is still uncertain; unlike other members of the STEAP family, STEAP1 does not promote iron or copper reduction or uptake and lacks the FNO-like reductase domain critical for activity. However, its expression is highly increased in multiple cancer cell lines, including prostate, bladder, colon, and ovarian cancers. Supporting this is evidence that STEAP1 peptides can be used to stimulate CD8<sup>+</sup> T cells from healthy donors, enabling them to recognize STEAP1-positive human tumor cells, suggesting that STEAP1 may be a potential target for cancer immunotherapy. At least three isoforms of STEAP1 are known to exist.

Note: This product is for in vitro research use only