Product Datasheet

STEAP1 Antibody

Catalog No: #24565

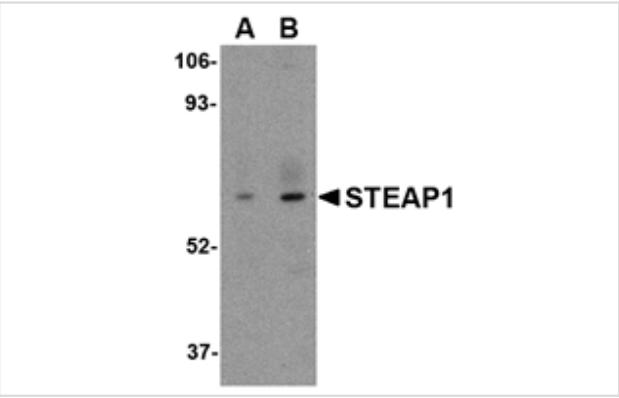
Package Size: #24565 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

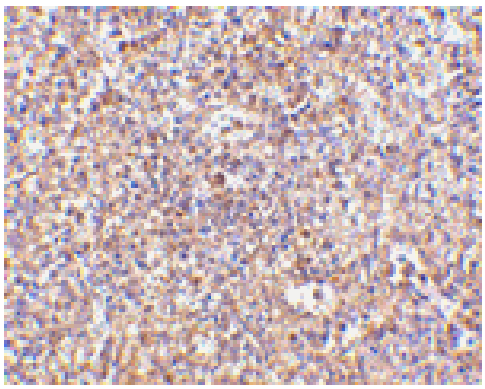
Description

Product Name	STEAP1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	ELISA WB IHC
Species Reactivity	Human;Mouse;Rat
Specificity	This STEAP1 antibody does not cross-react with other STEAP proteins.
Immunogen Type	Peptide
Immunogen Description	Raised against a 18 amino acid peptide from near the carboxy terminus of human STEAP1.
Conjugates	Unconjugated
Target Name	STEAP1
Other Names	Six transmembrane epithelial antigen of prostate 1, STEAP
Accession No.	EAL24166
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for 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



Western blot analysis of STEAP1 in human spleen tissue lysate with STEAP1 antibody at (A) 1 and (B) 2 ug/mL.



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

Background

The six-transmembrane epithelial antigen of prostate 1 (STEAP1) was the first member of a family of metalloreductases 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+ T cells from healthy donors, enabling them to recognize STEAP1-positive human tumor cells, suggesting that STEAP1 may a potential target for cancer immunotherapy. At least three isoforms of STEAP1 are known to exist.

Published Papers

el at., Prognostic Significance of Iron Metabolism Related Genes in Human Lung AdenocarcinomaInCancer Manag ResOn2023 Feb 22byPu Li?#?1,?Xiaoqiong Wu? et al..PMID: 36860893, , (2023)

PMID:36860893

Note: This product is for in vitro research use only and is not intended for use in humans or animals.