

Rabbit anti-Human, mouse STEA2 Polyclonal Antibody | anti-STEAP2 antibody

STEAP2 Antibody (Center)

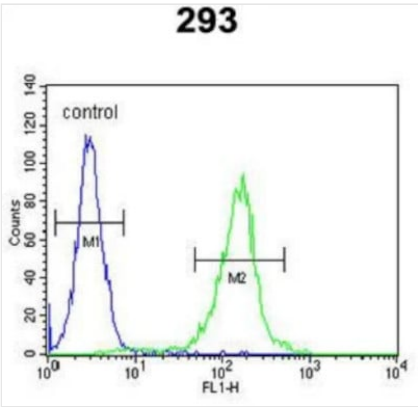
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA289952	Rabbit	Human, mouse	Western Blot, Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

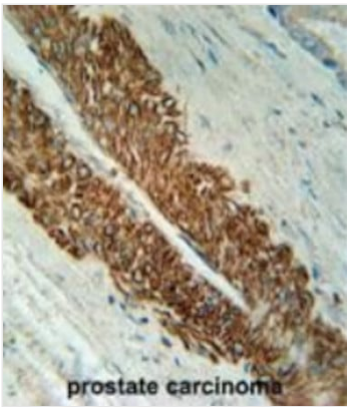
STEA2; Polyclonal Antibody; STEA2 Antibody (Center); Metalloreductase STEAP2; 1161-; Prostate cancer-associated protein 1; Protein up-regulated in metastatic prostate cancer; PUMPCn; Six-transmembrane epithelial antigen of prostate 2; SixTransMembrane protein of prostate 1; STEAP2; PCANAP1; STAMP1; anti-STEAP2 antibody

PRODUCT SPECIFICATIONS

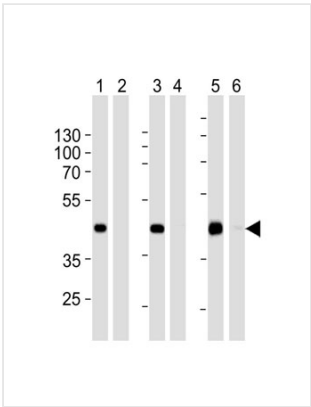
Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	IgG
Clone Number	RB26961
Specificity	This STEA2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 229-258 amino acids from the Central region of human STEA2.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	229-258
Sequence Length	419
Applicable Applications for anti-STEAP2 antibody	WB (Western Blot), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA
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.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



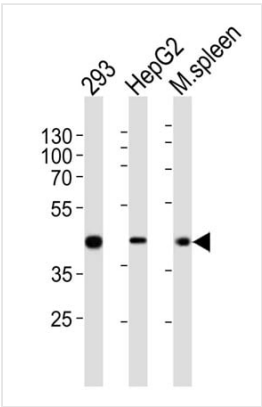
FCM/FACS (Flow Cytometry)
STEA2 Antibody (Center) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)
STEA2 Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human prostate carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the STEA2 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
Western blot analysis of extracts from 293 (lanes 1 and 2),HepG2 (lanes 3 and 4)cell line and mouse spleen (lanes 5 and 6)tissue lysate: 1, 3, 5. using STEA2 Antibody (Center)(AAA289952), (1:500). 2, 4, 6. using STEA2 Antibody (Center), preincubated with the control peptide antigen.



WB (Western Blot)
Western blot analysis of lysates from 293, HepG2 cell line, mouse spleen tissue lysate (from left to right), using STEA2 Antibody (Center). AAA289952 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

ADDITIONAL INFORMATION

Related Product Information for anti-STEAP2 antibody	This gene is a member of the STEAP family and encodes a multi-pass membrane protein that localizes to the Golgi complex, the plasma membrane, and the vesicular tubular structures in the cytosol. A highly similar protein in mouse has both ferriredutase and cupric reductase activity, and stimulates the cellular uptake of both iron and copper in vitro. Increased transcriptional expression of the human gene is associated with prostate cancer progression. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.
Product Categories/Family for anti-STEAP2 antibody	Crown Antibodies; Cancer
References	Vaghjiani, R.J., et al. Tissue Eng Part A 15(8):2073-2083(2009) Denoeud, F., et al. Genome Res. 17(6):746-759(2007) Ohgami, R.S., et al. Blood 108(4):1388-1394(2006)

NCBI AND UNIPROT INFORMATION

NCBI GI #	100913194
NCBI GeneID	261729
NCBI Accession #	NP_001035755.1; NP_001035756.1; NP_001231873.1; NP_001231875.1; NP_694544.2

NCBI GenBank Nucleotide #	NM_001040665.1
NCBI Official Full Name	metalloreductase STEAP2 isoform a
NCBI Official Synonym Full Names	STEAP family member 2, metalloreductase
NCBI Official Symbol	STEAP2
NCBI Official Synonym Symbols	STMP; IPCA1; PUMPCn; STAMP1; PCANAP1
NCBI Protein Information	metalloreductase STEAP2
UniProt Protein Name	Metalloreductase STEAP2
UniProt Gene Name	STEAP2
UniProt Synonym Gene Names	PCANAP1; STAMP1; PUMPCn
UniProt Entry Name	STEA2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/stea2-antibody-clone-rb26961-western-blot-flow-cytometry-immunohistochemistry-elisa/289952>