



STEAP2 Polyclonal Antibody

Catalog No	YP-Ab-04228
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;IHC;IF;ELISA
Gene Name	STEAP2
Immunogen	The antiserum was produced against synthesized peptide derived from human STEA2. AA range:431-480
Specificity	STEAP2 Polyclonal Antibody detects endogenous levels of STEAP2 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. IHC-p: 1:100-300 ELISA: 1/20000. IF 1:100-300 Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	STEAP2-Specific;EC:1.16.1.-;Metalloreductase STEAP2;PCANAP1;Prostate cancer;STEAP2;STAMP1;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
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Endosome membrane ; Multi-pass membrane protein . Cell membrane ; Multi-pass membrane protein .
Tissue Specificity	Expressed at high levels in prostate and at significantly lower levels in heart, brain, kidney, pancreas, and ovary.
Function	cofactor:FAD.,function:Metalloreductase that has the ability to reduce both Fe(3+) to Fe(2+) and Cu(2+) to Cu(1+). Uses NAD(+) as acceptor., similarity:Belongs to the STEAP family.,similarity:Contains 1 ferric oxidoreductase domain.,tissue specificity:Expressed at high levels in prostate and at significantly lower levels in heart, brain, kidney, pancreas, and ovary.,



Background

STEAP2 metalloreductase(STEAP2) Homo sapiens 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 ferrireductase 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. [provided by RefSeq, Jul 2008],

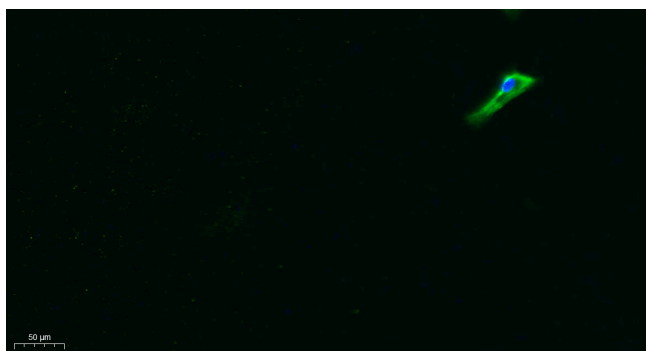
matters needing attention

Avoid repeated freezing and thawing!

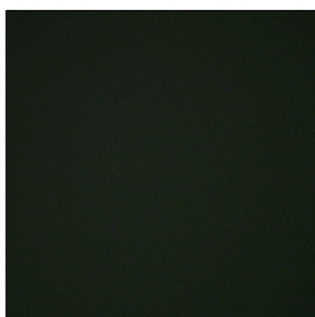
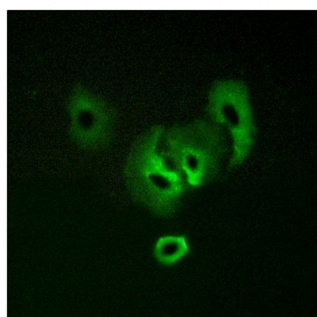
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

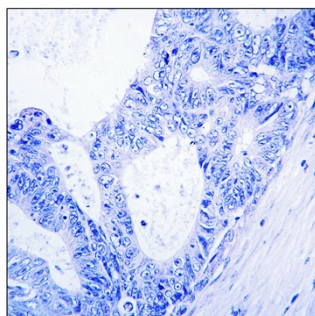
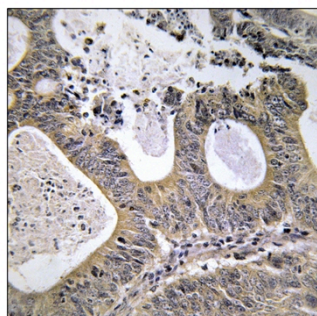
Products Images



Immunofluorescence analysis of A549. 1,primary Antibody was diluted at 1:200(4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - Alexa Fluor 488 Secondary antibody was diluted at 1:1000(room temperature, 50min).3, Picture B: DAPI(blue) 10min.



Immunofluorescence analysis of A549 cells, using STEA2 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma tissue, using STEA2 Antibody. The picture on the right is blocked with the synthesized peptide.