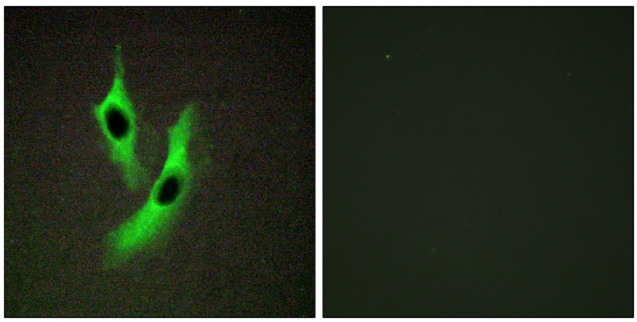
STAMP2 Polyclonal Antibody

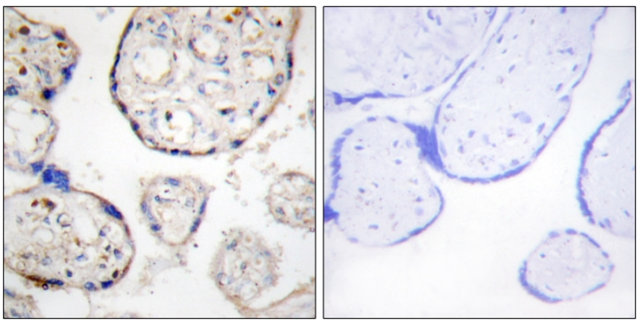
Catalog No	YP-Ab-04225
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	IHC;IF;ELISA
Gene Name	STEAP4
Protein Name	Metalloreductase STEAP4
Immunogen	The antiserum was produced against synthesized peptide derived from human STEAP4. AA range:201-250
Specificity	STAMP2 Polyclonal Antibody detects endogenous levels of STAMP2 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	Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	STEAP4; STAMP2; TNFAIP9; Metalloreductase STEAP4; Six-transmembrane epithelial antigen of prostate 4; SixTransMembrane protein of prostate 2; Tumor necrosis factor; alpha-induced protein 9
Observed Band	
Cell Pathway	Cell membrane ; Multi-pass membrane protein . Golgi apparatus membrane ; Multi-pass membrane protein . Early endosome membrane ; Multi-pass membrane protein .
Tissue Specificity	Ubiquitous. Highly expressed in adipose tissue. Expressed in placenta, lung, heart and prostate. Detected at lower levels in liver, skeletal muscle, pancreas, testis and small intestine. Highly expressed in joints of patients with rheumatoid arthritis and localized with CD68 cells, a marker for macrophages.
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.,induction:Up-regulated by androgens, including testosterone and dihydrotestosterone.,similarity:Belongs to the STEAP family.,similarity:Contains 1 ferric oxidoreductase domain.,tissue specificity:Ubiquitous. Highly expressed in placenta, lung, heart and prostate. Detected at lower levels in liver, skeletal muscle, pancreas, testis and small intestine.,

Background	STEAP4 metalloreductase(STEAP4) Homo sapiens The protein encoded by this gene belongs to the STEAP (six transmembrane epithelial antigen of prostate) family, and resides in the golgi apparatus. It functions as a metalloreductase that has the ability to reduce both Fe(3+) to Fe(2+) and Cu(2+) to Cu(1+), using NAD(+) as acceptor. Studies in mice and human suggest that this gene maybe involved in adipocyte development and metabolism, and may contribute to the normal biology of the prostate cell, as well as prostate cancer progression. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2011],
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 HeLa cells, using STEAP4 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human placenta tissue, using STEAP4 Antibody. The picture on the right is blocked with the synthesized peptide.