

Rabbit anti-Human, Mouse STEAP4 Polyclonal Antibody | anti-STEAP4 antibody

STEAP4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324016	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry

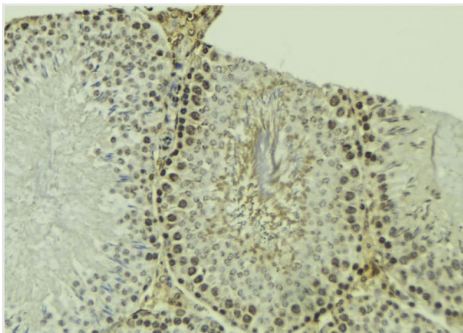
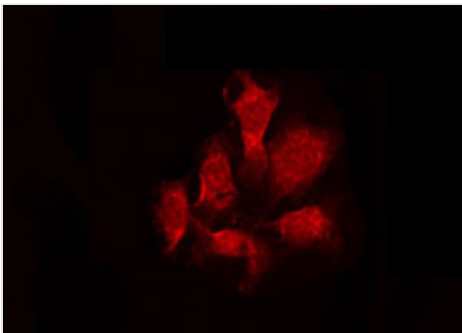
PRODUCT SYNONYMS

STEAP4; Polyclonal Antibody; STEAP4 Antibody; alpha-induced protein 9; Metalloreductase STEAP4; six transmembrane prostate protein 2; Six-transmembrane epithelial antigen of prostate 4; SixTransMembrane protein of prostate 2; STAMP 2; STAMP2; STEA4_HUMAN; STEAP 4; STEAP family member 4; TIARP; TNFAIP 9; TNFAIP9; Tumor necrosis factor; tumor necrosis factor; tumor necrosis-alpha-induced adipose-related protein; anti-STEAP4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	STEAP4 antibody detects endogenous levels of total STEAP4
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	459
Applicable Applications for anti-STEAP4 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry)
Immunogen	A synthesized peptide
Subcellular Location	Cell Membrane. Golgi Apparatus Membrane.
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.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)
AAA324016 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

IHC (Immunohistochemistry)
AAA324016 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-STEAP4 antibody	Function: Metalloreductase that has the ability to reduce both Fe3+ to Fe2+ and Cu2+ to Cu1+ (By similarity). Uses NADP+ as acceptor (By similarity). Plays a role in systemic metabolic homeostasis, integrating inflammatory and metabolic responses (By similarity). Associated with obesity and insulin-resistance (PubMed:18430367, PubMed:18381574). Involved in inflammatory arthritis, through the regulation of inflammatory cytokines (PubMed:19660107). Inhibits anchorage-independent cell proliferation (PubMed:19787193). Subunit Structure: Homodimer (By similarity). Interacts with PTK2/FAK1; the interaction may regulate PTK2 phosphorylation. Similarity: Belongs to the STEAP family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	328887949
NCBI GeneID	79689
NCBI Accession #	NP_001192244.1
NCBI GenBank Nucleotide #	NM_001205315.1
UniProt Accession #	Q687X5; Q658Q9; Q687X4; Q8WWB0; Q9H5R1
Molecular Weight	Predicted: 52 kDa
NCBI Official Full Name	metalloreductase STEAP4 isoform 1
NCBI Official Synonym Full Names	STEAP4 metalloreductase
NCBI Official Symbol	STEAP4
NCBI Official Synonym Symbols	TIARP; STAMP2; SchLAH; TNFAIP9
NCBI Protein Information	metalloreductase STEAP4
UniProt Protein Name	Metalloreductase STEAP4
UniProt Gene Name	STEAP4
UniProt Synonym Gene Names	STAMP2; TNFAIP9

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.