

Rabbit STEAP3 Polyclonal Antibody | anti-STEAP3 antibody

STEAP3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325908	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

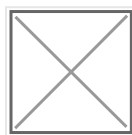
PRODUCT SYNONYMS

STEAP3; Polyclonal Antibody; STEAP3 Antibody; 1010001D01Rik; Dudlin 2; Dudlin2; Dudulin 2; Dudulin-2; Dudulin2; hpHyde; hTSAP6; Metalloreductase STEAP3; MGC93147; pHyde; Six transmembrane epithelial antigen of prostate 3; Six transmembrane prostate protein 3; Six-transmembrane epithelial antigen of prostate 3; STEA 3; STEA3_HUMAN; STEAP 3; STEAP family member 3; STEAP family member 3 metalloreductase; STMP 3; STMP3; TSAP 6; TSAP6; Tumor suppressor activated pathway protein 6; Tumor suppressor pHyde; Tumor suppressor-activated pathway protein 6; anti-STEAP3 antibody

PRODUCT SPECIFICATIONS

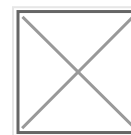
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	STEAP3 antibody detects endogenous levels of total STEAP3
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	488
Applicable Applications for anti-STEAP3 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human STEAP3
Subcellular Location	Endosome Membrane. Localizes to vesicular-like structures at the plasma membrane and around the nucleus.
Tissue Specificity	Expressed in adult bone marrow, placenta, liver, skeletal muscle and pancreas. Down-regulated in hepatocellular carcinoma.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)

AAA325908 at 1/100 staining Mouse liver 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.



IF (Immunofluorescence)

AAA325908 staining COLO205 cells 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) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of Mouse liver tissue lysates, using STEAP3 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-STEAP3 antibody	Description: Caspases modulate apoptosis in various ways. Specifically, Caspase-3, a death protease, is instrumental in cleaving cellular proteins, dismantling the cell and forming apoptotic bodies. pHyde has a potential role as a tumor suppressor by inducing caspase-3-mediated apoptosis and stimulating p53 expression. A dose-dependent increase in caspase-3 activity is observed in transduced pHyde DU145 cells. Furthermore, caspase-3 may be necessary for pHyde-mediated apoptosis. The pHyde gene may upregulate the apoptosis pathway and thus have a potential application in cancer gene therapy. Recombinant pHyde inhibits the growth of human prostate cancer cell lines DU145 and LNCaP in vitro. DU145 tumors may be reduced significantly in vivo when nude mice are injected with recombinant pHyde. pHyde also has a demonstrated growth inhibitory effect on human breast cancer cells. This suggests that pHyde may have a role in inhibiting different tumor types. Function: Endosomal ferriredutase required for efficient transferrin-dependent iron uptake in erythroid cells. Participates in erythroid iron homeostasis by reducing Fe³⁺ to Fe²⁺. Can also reduce of Cu²⁺ to Cu¹⁺, suggesting that it participates in copper homeostasis. Uses NADP⁺ as acceptor. May play a role downstream of p53/TP53 to interface apoptosis and cell cycle progression. Indirectly involved in exosome secretion by facilitating the secretion of proteins such as TCTP. Subunit Structure: Homodimer. Interacts with BNIP3L, MYT1, RHBDL4/RHBDD1 and TCTP. Post-translational Modifications: Proteolytically cleaved by RHBDL4/RHBDD1. RHBDL4/RHBDD1-induced cleavage occurs at multiple sites in a glycosylation-independent manner. Glycosylated. Similarity: Belongs to the STEAP family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	56549147
NCBI GeneID	55240
NCBI Accession #	NP_001008410.1
NCBI GenBank Nucleotide #	NM_001008410.1
UniProt Accession #	Q658P3; Q4VBR2; Q4ZG36; Q53SQ8; Q7Z389; Q86SF6; Q8NEW6; Q8TDP3; Q8TF03; Q9NVB5; A8K6E3
Molecular Weight	Observed: 55 kDa Predicted: 55 kDa
NCBI Official Full Name	metalloreductase STEAP3 isoform b
NCBI Official Synonym Full Names	STEAP3 metalloreductase
NCBI Official Symbol	STEAP3
NCBI Official Synonym Symbols	STMP3; TSAP6; pHyde; AHMIO2; dudlin-2; dudulin-2
NCBI Protein Information	metalloreductase STEAP3
UniProt Protein Name	Metalloreductase STEAP3
UniProt Gene Name	STEAP3
UniProt Synonym Gene Names	TSAP6; hTSAP6; hpHyde

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.