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STEAP3 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP16241b

Specification

STEAP3 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q658P3

STEAP3 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 55240

Other Names
Metalloreductase STEAP3, 1161-, Dudulin-2, Six-transmembrane epithelial antigen of prostate 3, Tumor suppressor-activated pathway protein 6, hTSAP6, pHyde, hpHyde, STEAP3, TSAP6

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

STEAP3 Antibody (C-term) Blocking Peptide - Protein Information

Name STEAP3

Synonyms TSAP6

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 (PubMed:26205815). 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). Mediates efficient transferrin-dependent iron uptake in erythroid cells (By similarity). May play a role downstream of p53/TP53 to interface apoptosis and cell cycle progression (By similarity). Indirectly involved in exosome secretion by facilitating the secretion of proteins such as TCTP (PubMed:15319436, PubMed:16651434).

Cellular Location
Endosome membrane {ECO:0000250|UniProtKB:Q8CI59}; Multi-pass membrane protein. Note=Localizes to vesicular- like structures at the plasma membrane and around the nucleus

Tissue Location
Expressed in adult bone marrow, placenta, liver, skeletal muscle and pancreas. Down-regulated in hepatocellular carcinoma.

STEAP3 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

STEAP3 Antibody (C-term) Blocking Peptide - Images

STEAP3 Antibody (C-term) Blocking Peptide - Background

Endosomal ferrireductase required for efficient transferrin-dependent iron uptake in erythroid cells. Participates in erythroid iron homeostasis by reducing Fe(3+) to Fe(2+). Can also reduce of Cu(2+) to Cu(1+), suggesting that it participates in copper homeostasis. Uses NAD(+) as acceptor (By similarity). 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.

STEAP3 Antibody (C-term) Blocking Peptide - References

Ucisik-Akkaya, E., et al. Mol. Hum. Reprod. 16(10):770-777(2010)Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Caillot, F., et al. Histopathology 54(3):319-327(2009)Sendamarai, A.K., et al. Proc. Natl. Acad. Sci. U.S.A. 105(21):7410-7415(2008)Olsen, J.V., et al. Cell 127(3):635-648(2006)