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STEAP4 Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS11155

Specification

STEAP4 Antibody (N-Terminus) - Product Information

Application	**IHC**
Primary Accession	Q687X5
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**52kDa KDa**

STEAP4 Antibody (N-Terminus) - Additional Information

Gene ID 79689

Other Names
Metalloreductase STEAP4, 1.16.1.-, Six-transmembrane epithelial antigen of prostate 4, SixTransMembrane protein of prostate 2, Tumor necrosis factor, alpha-induced protein 9, STEAP4, STAMP2, TNFAIP9

Target/Specificity
Human STEAP4. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage
Long term: -70°C; Short term: +4°C

Precautions
STEAP4 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

STEAP4 Antibody (N-Terminus) - Protein Information

Name STEAP4

Synonyms STAMP2 {ECO:0000303|PubMed:15897894}, TN

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. Mediates sequential transmembrane electron transfer from NADPH to FAD and onto heme, and finally to the Fe(3+) chelate (PubMed:30337524). Can also reduce Cu(2+) to Cu(1+) (By similarity). Plays a role in systemic metabolic homeostasis, integrating inflammatory and metabolic responses (By similarity). Associated with obesity and insulin-resistance (PubMed:<a href="http://www.uniprot.org/citations/18430367"

target="_blank">18430367, PubMed:18381574). Involved in inflammatory arthritis, through the regulation of inflammatory cytokines (PubMed:19660107). Inhibits anchorage- independent cell proliferation (PubMed:19787193).

Cellular Location
Cell membrane; Multi-pass membrane protein. Golgi apparatus membrane; Multi-pass membrane protein. Early endosome membrane; Multi-pass membrane protein

Tissue Location
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

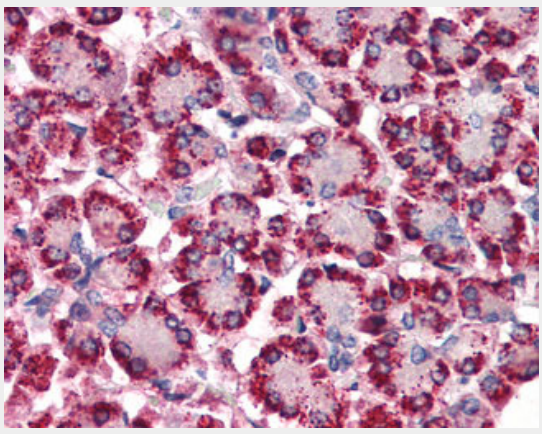
Volume
50 µl

STEAP4 Antibody (N-Terminus) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

STEAP4 Antibody (N-Terminus) - Images



Anti-STEAP4 antibody ALS11155 IHC of human pancreas.

STEAP4 Antibody (N-Terminus) - Background

Metalloreductase that has the ability to reduce both Fe(3+) to Fe(2+) and Cu(2+) to Cu(1+). Uses NAD(+) as acceptor. Plays a role in systemic metabolic homeostasis, integrating inflammatory and metabolic responses (By similarity). Associated with obesity and insulin-resistance. Involved in

inflammatory arthritis, through the regulation of inflammatory cytokines. Inhibits anchorage-independent cell proliferation.

STEAP4 Antibody (N-Terminus) - References

Korkmaz C.G.,et al.Oncogene 24:4934-4945(2005).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Ohgami R.S.,et al.Nat. Genet. 37:1264-1269(2005).
Zhang C.M.,et al.Acta Pharmacol. Sin. 29:587-592(2008).