

Recombinant Human STEAP2 protein, GST-tagged

Cat. No. STEAP2-15H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human STEAP2(1 a.a. - 490 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-490 a.a.
Description	This gene is a member of the STEAP family and encodes a multi-pass membrane protein that localizes to the Golgi complex, the plasma membrane, and the vesicular tubular structures in the cytosol. A highly similar protein in mouse has both ferrireductase and cupric reductase activity, and stimulates the cellular uptake of both iron and copper in vitro. Increased transcriptional expression of the human gene is associated with prostate cancer progression. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	80.85 kDa
AA Sequence	MESISMMGSPKSLSETFLPNGINGIKDARKVTVGVI GSGDFAKSLTIRLIRCGYHVVIG SRNPKFASEFFPHVVD VTHHEDALTKTNIIFVAIHREHYTSLWDLRHLLVGKILIDVSN NMRINQYPESNAEYLASLFPDSLIVKGFN VVS AWALQLGPKDASRQVYICSNNIQAR QQVIELARQLNFIPI DLGSLSSAREIENLPLRLFTLWRGPV VVAISLATF FFLYSFVRD

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VIHPYARNQQSDFYKIPVNTLPIVAITLLSLVYLAGLLAAAYQLYYGTKYRRFPPW
 LETWLQ CRKQLGLLSFFFAMVHVAYSCLCPMRRSERYLFLNMAYQQVHANIENSW
 NEEVWRIEMYISFGIMSLGLLSLLA VTSIPSVSNALNWREFSFIQSTLGYVALLISTF
 HVLIYGWKRAFEEYRFTYPPNFVLALVLPISIVILGKIILF LPCISRKLKRIKKGWEKS
 QFLEEGMGGTIPHVSPERTVM

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name

STEAP2 STEAP family member 2, metalloredutase [Homo sapiens]

Official Symbol

STEAP2

Synonyms

STEAP2; STEAP family member 2, metalloredutase; PCANAP1, prostate cancer associated protein 1 , six transmembrane epithelial antigen of the prostate 2; metalloredutase STEAP2; IPCA 1; STAMP1; STMP; prostate cancer associated protein 1; prostate cancer-associated protein 1; SixTransMembrane Protein of Prostate 1; protein upregulated in metastatic prostate cancer; protein up-regulated in metastatic prostate cancer; six transmembrane epithelial antigen of prostate 2; six-transmembrane epithelial antigen of prostate 2; six transmembrane epithelial antigen of the prostate 2; IPCA1; PUMPCn; PCANAP1;

Gene ID

261729

mRNA Refseq

NM_001040665

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Protein Refseq	NP_001035755
MIM	605094
UniProt ID	Q8NFT2
Chromosome Location	7q21.13
Pathway	Mineral absorption, organism-specific biosystem; Mineral absorption, conserved biosystem;
Function	electron carrier activity; flavin adenine dinucleotide binding; iron ion binding; metal ion binding; nucleotide binding; oxidoreductase activity; transporter activity;

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