PRODUCT INFORMATION

Tag	N-His, C-Strep Tag
Expression Host	E.coli
Target	STEAP1
Description	Human STEAP1 cell-free full length protein-Nanodisc
Synonyms	PRSS24; STEAP
Uniprot ID	Q9UHE8
Protein Families	Transmembrane
Protein Pathways	N/A
Molecular Weight	The human STEAP1 cell-free full length protein-Nanodisc has a MW of 43.9kDa
Delivery	1 week
Formulation & Reconstitution	Liquid, 50mM HEPES, 150mM NaCl, pH7.5
Sterility	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 μm) prior to use.
Storage&Shipping	Store at -80℃, Ship on dry ice.
Purity	>80%
Background	STEAP1 is a cell-surface biomolecule composed by sixtransmembrane domains connected by intra- and extracellular loops. It is commonly found overexpressed in several types of cancers, namely in PCa, and is preferentially located at the tight or gap junctions. However, in nontumoural tissues and vital organs, STEAP1 protein presents low or absent expression, unveiling considerable specificity for cancer environment. Taking into account STEAP1 predicted transmembrane topology and cellular localization, it has been hypothesized that STEAP1 may play an important role as a transporter protein and can be involved in intercellular communication.
Usage	Research use only
Conjugate	Unconjugated

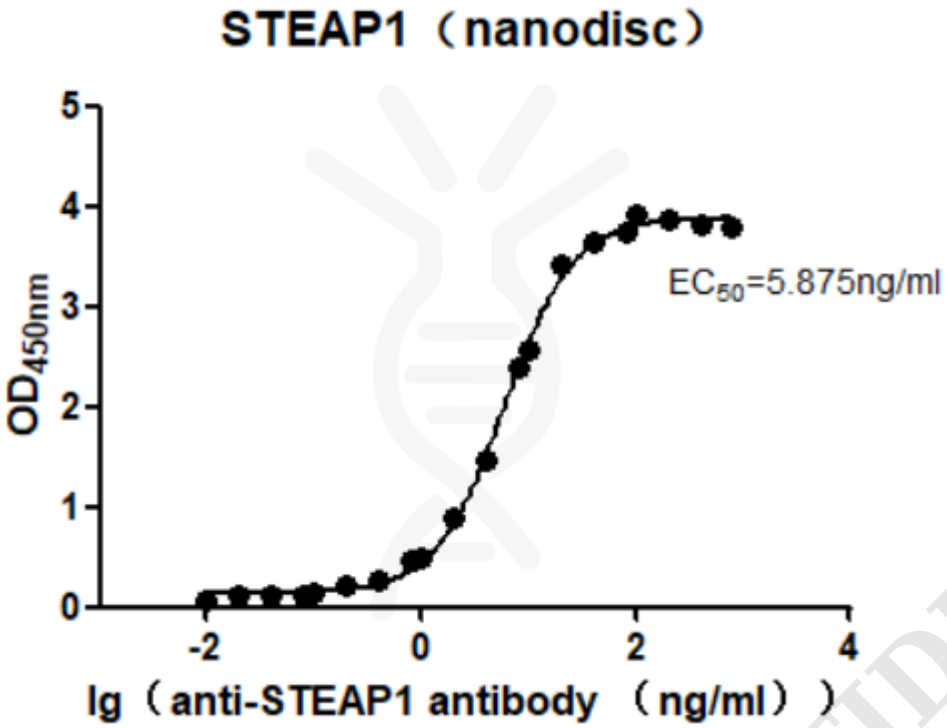

Figure 1. Elisa plates were pre-coated with N-His, C-Strep Tag STEAP1 cell-free-Nanodisc (0.5μg/per well). Serial diluted anti-STEAP1 antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-STEAP1 antibody binding with STEAP1 cell-free-Nanodisc is 5.875 ng/mL.

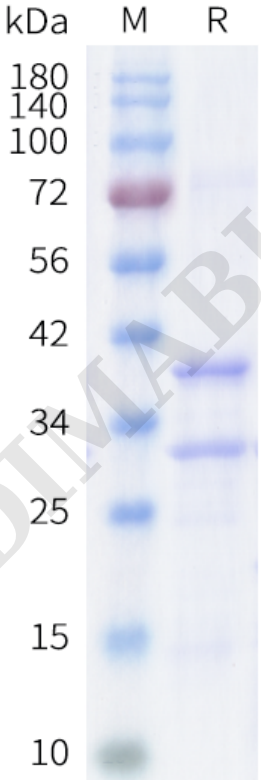

Figure 2. Human STEAP1 cell-free-Nanodisc,N-His, C-Strep Tag on SDS-PAGE.