HUMAN STEAP1 FULL LENGTH PROTEIN

Cat.#: 11051

Product Name: Human STEAP1 Full Length Protein

Size : 10 μg, 50 μg and 100 μg

Synonyms: PRSS24; STEAP

Target: STEAP1

UNIPROT ID: Q9UHE8

Description: Human STEAP1 full length protein-synthetic nanodisc

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.

Species/Host: HEK293

Molecular Weight: The human full length STEAP1 protein has a MW of 39.9 kDa

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20ºC to -80ºC for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80ºC (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
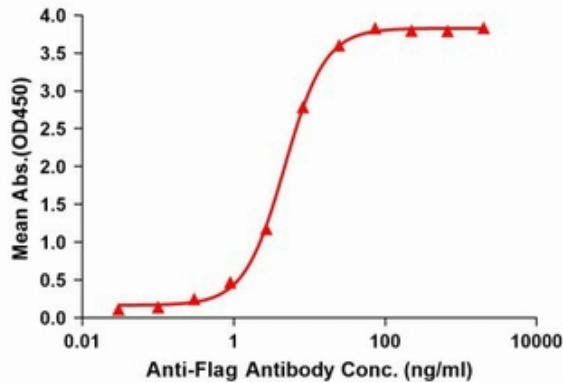
Figure1. Elisa plates were pre-coated with Flag Tag STEAP1-Nanodisc (0.2 µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with STEAP1-Nanodisc is 4.713ng/ml.
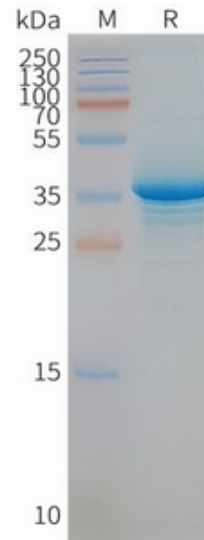

Figure2. Human STEAP1-Nanodisc, Flag Tag on SDS-PAGE