

# **Human STEAP1 Antibody**

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF5587

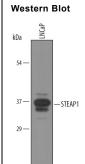
DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human STEAP1 in direct ELISAs and Western blots.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	E. coli-derived recombinant human STEAP1 Met1-His72 Accession # Q9UHE8	
Formulation	n Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.	

#### APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

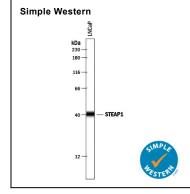
	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below
Simple Western	10 μg/mL	See Below

### DATA



#### Detection of Human STEAP1 by Western Blot.

Western blot shows lysates of LNCaP human prostate cancer cell line. PVDF membrane was probed with 1  $\mu$ g/mL of Goat Anti-Human STEAP1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5587) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for STEAP1 at approximately 37 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Carolin 8.



Detection of Human STEAP1 by Simple WesternT<sup>M</sup>. Simple Western lane view shows lysates of LNCaP human prostate cancer cell line, loaded at 0.2 mg/mL. A specific band was detected for STEAP1 at approximately 40 kDa (as indicated) using 10 µg/mL of Goat Anti-Human STEAP1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5587) followed by 1:50 dillution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

## PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

#### BACKGROUND

STEAP1 (six-transmembrane epithelial antigen of the prostate-1) is a 40 kDa protein (predicted) of the STEAP family of metalloreductases. It is expressed mainly at cell-cell junctions between prostate secretory epithelium, and up-regulated in prostate and some bladder, colon and ovarian cancers and Ewing's sarcomas. Human STEAP1 is 339 amino acids (aa) in length. It contains a ferric oxidoreductase domain (aa 119-265) that includes transmembrane sequences (# 2, 3, 4, and part of 5, out of 6 sequences). Two splice forms diverge at aa 255, terminating after aa 58 or 259. Over aa 1-71, human and mouse STEAP1 share 68% aa identity.

Rev. 2/6/2018 Page 1 of 1

