

## STEAP4 Polyclonal Antibody

Catalog number: 11944-1-AP

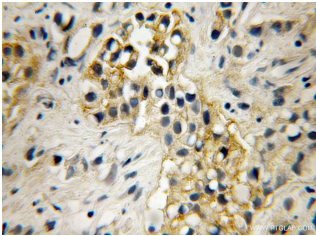
Size: 20 µg/150 µl

Source: Rabbit

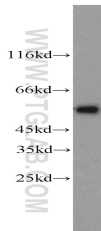
Isotype: IgG

Synonyms:

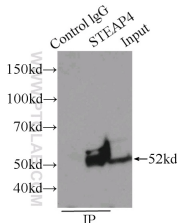
STEAP4; DKFZp666D049,  
FLJ23153, Metalloreductase  
STEAP4, STAMP2, STEAP  
family member 4, STEAP4,  
TIARP, TNFAIP9



Immunohistochemical of paraffin-embedded human prostate cancer using 11944-1-AP (STEAP4 antibody) at dilution of 1:50 (under 10x lens)



3T3-L1 cells were subjected to SDS PAGE followed by western blot with 11944-1-AP (STEAP4 antibody) at dilution of 1:1000



IP Result of anti-STEAP4 (IP:11944-1-AP, 4µg; Detection:11944-1-AP 1:1000) with A549 cells lysate 1600µg.

### Background

STEAP4 (also called STAMP2), is a member of the STEAP family. Structurally, It is a 459 amino acid protein characterized by a molecular topology of six transmembrane domains. The cytoplasmic N-terminal domain of STEAP4 shows structural similarity with bacterial and archaeal FNO oxidoreductase and STEAP4 exhibits a strong iron reductase activity. Studies in mice and human suggest that STEAP4 maybe involved in adipocyte development and metabolism, and may contribute to the normal biology of the prostate cell, as well as prostate cancer progression.

### Applications

|                          |  |
|--------------------------|--|
| Tested applications:     | ELISA, WB, IHC, IP   |
| Cited applications:      | IHC, WB  |
| Species specificity:     | Human, Mouse, Rat; other species not tested.                           |
| Cited species:           | Human, mouse   |
| Calculated STEAP4 MW:    | 52 kDa   |
| Observed STEAP4 MW:      | 52-55 kDa  |
| Positive WB detected in  | 3T3-L1 cells, human brain tissue, human liver tissue, rat liver tissue |
| Positive IP detected in  | A549 cells   |
| Positive IHC detected in | Human prostate cancer tissue   |
| Recommended dilution:    | WB: 1:500-1:5000<br>IP: 1:500-1:5000<br>IHC: 1:20-1:200                |

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

### Immunogen information

|                           |                       |
|---------------------------|-----------------------|
| Immunogen:                | Ag2545                |
| GenBank accession number: | BC020600              |
| Gene ID (NCBI):           | 79689                 |
| Full name:                | STEAP family member 4 |

### Product information

|                      |   |
|----------------------|---|
| Purification method: | Antigen affinity purification                                       |
| Storage:             | PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C. |