

Datasheet for ABIN500817
anti-STEAP1 antibody (C-Term)[Go to Product page](#)

2 Images

Overview

| | |
|----------------------|--|
| Quantity: | 0.1 mg |
| Target: | STEAP1 |
| Binding Specificity: | C-Term |
| Reactivity: | Human, Rat, Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This STEAP1 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA) |

Product Details

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|-----------------------------|--|
| Immunogen: | STEAP1 antibody was raised against a 18 amino acid peptide from near the carboxy terminus of human STEAP1. |
| Isotype: | IgG |
| Specificity: | This antibody detects STEAP1 at C-term. It does not cross-react with other STEAP proteins. |
| Cross-Reactivity (Details): | Species reactivity (tested): Human, mouse, rat |
| Purification: | Peptide affinity chromatography |

Target Details

| | |
|---------|--------|
| Target: | STEAP1 |
|---------|--------|

Target Details

Alternative Name: STEAP / STEAP1 ([STEAP1 Products](#))

Background: The six-transmembrane epithelial antigen of prostate 1 (STEAP1) was the first member of a family of metalloreductases identified as cell-surface antigens in prostate tissue. The normal function of STEAP is still uncertain, unlike other members of the STEAP family, STEAP1 does not promote iron or copper reduction or uptake and lacks the FNO-like reductase domain critical for activity. However, its expression is highly increased in multiple cancer cell lines, including prostate, bladder, colon, and ovarian cancers. Supporting this is evidence that STEAP1 peptides can be used to stimulate CD8+ T cells from healthy donors, enabling them to recognize STEAP1-positive human tumor cells, suggesting that STEAP1 may a potential target for cancer immunotherapy. At least three isoforms of STEAP1 are known to exist. Synonyms: Metalloreductase STEAP1, PRSS24, STEAP-1, Six-transmembrane epithelial antigen of prostate 1

Gene ID: 26872

NCBI Accession: [NP_036581](#)

Pathways: [Transition Metal Ion Homeostasis](#)

Application Details

Application Notes: ELISA. Western blot: 1 - 2 µg/mL. Immunohistochemistry on paraffin sections.
Other applications not tested.
Optimal dilutions are dependent on conditions and should be determined by the user.

Restrictions: For Research Use only

Handling

Buffer: PBS containing 0.02 % sodium azide

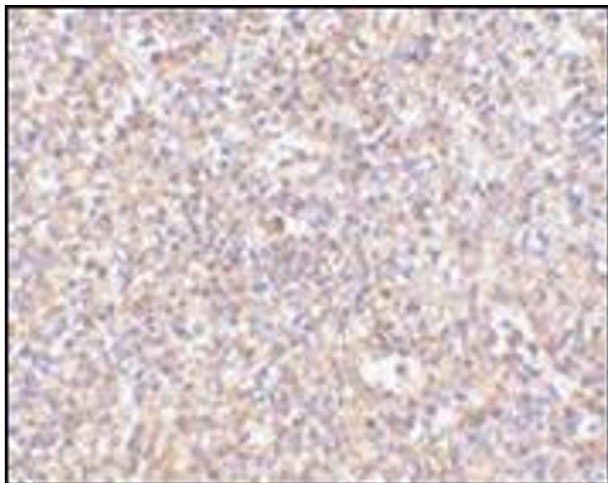
Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

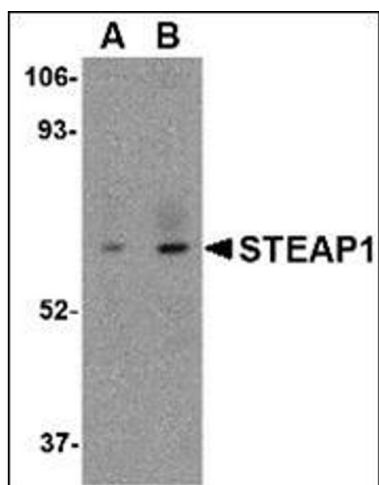
Storage: 4 °C/-20 °C

Storage Comment: Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer.



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of STEAP1 in human spleen tissue AP30832PU-N antibody at 2.5 µg/ml.



Western Blotting

Image 2. Western blot analysis of STEAP1 in human spleen tissue lysate with this product at (A) 1 and (B) 2 µg/ml.