BOSTER BIOLOGICAL TECHNOLOGY
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# Anti-Metalloreductase STEAP3 STEAP3 Antibody

**Catalog Number:** A05568-1

## About STEAP3

The six-transmembrane epithelial antigen of prostate 3 (STEAP3) is a member of a family of metalloreductases identified as cell-surface antigens in prostate tissue. Similar to two other members of the STEAP family (STEAP 2 and STEAP4), STEAP3 promotes both iron and copper reduction. STEAP3 is highly expressed in hematopoietic tissues and colocalizes with the transferrin endosome. Overexpression of STEAP3 stimulates iron reduction; mice lacking STEAP3 are deficient in erythroid ferrireductase activity, suggesting that STEAP3 is an endosomal ferrireductase required for transferrin-dependent iron uptake in erythroid cells.

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## Overview

| | |
|---|---|
| Product Name | Anti-Metalloreductase STEAP3 STEAP3 Antibody |
| Reactive Species | Human, Mouse, Rat |
| Description | Boster Bio Anti-Metalloreductase STEAP3 STEAP3 Antibody (Catalog # A05568-1). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat. |
| Application | ELISA, IF, IHC-P, WB |
| Clonality | Polyclonal |
| Formulation | STEAP3 Antibody is supplied in PBS containing ≤0.09% sodium azide. |
| Storage Instructions | STEAP3 antibody can be stored at 4°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures. |
| Host | Rabbit |
| Uniprot ID | Q658P3 |

## Technical Details

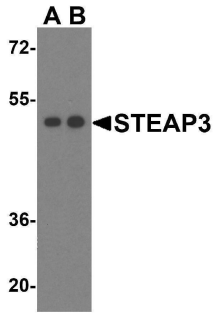
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| Immunogen | STEAP3 antibody was raised against a 15 amino acid synthetic peptide from near the amino terminus of human STEAP3. The immunogen is located within the first 50 amino acids of STEAP3. |
| Predicted Reactive Species | Bovine |
| Cross Reactivity | This STEAP3 antibody does not cross-react with other STEAP proteins. |

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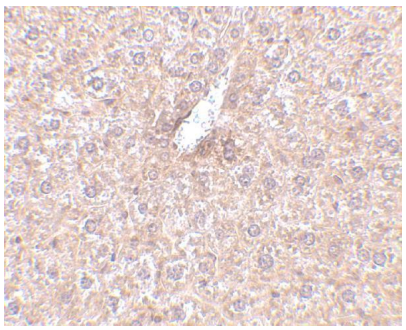
| | |
|---|---|
| Isotype | IgG |
| Form | Liquid |
| Concentration | 1 mg/mL |
| Purification | STEAP3 Antibody is affinity chromatography purified via peptide column. |
| Suggested Dilutions | STEAP3 antibody can be used for detection of STEAP3 by Western blot at 1 - 2 ug/mL. Antibody can also be used for immunohistochemistry starting at 2.5 ug/mL. For immunofluorescence start at 20 ug/mL.<br>Antibody validated: Western Blot in human samples; Immunohistochemistry in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher. |

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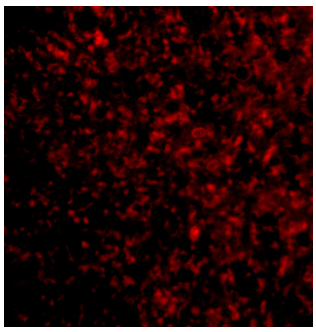
# Anti-Metalloreductase STEAP3 STEAP3 Antibody (A05568-1) Images




Western blot analysis of STEAP3 in HeLa cell lysate with STEAP3 antibody at (A) 1 and (B) 2 ug/mL.



Immunohistochemistry of STEAP3 in mouse liver tissue with STEAP3 antibody at 2.5 ug/mL.



Immunofluorescence of STEAP3 in Mouse Liver cells with STEAP3 antibody at 20 ug/mL.

Anti-Metalloreductase STEAP3 STEAP3 Antibody

For Research Use Only. Not for use in diagnostic procedures.