

Datasheet: AHP1438

Description:	RABBIT ANTI STEAP1 (C-TERMINAL)
Specificity:	STEAP1 (C-TERMINAL)
Other names:	STEAP
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1 - 2ug/ml

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
Species Cross Reactivity	Reacts with: Rat, Mouse N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Antisera to human STEAP (CT) were raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

Immunogen An 18 amino acid peptide located near the c-terminal region of human STEAP1.

External Database Links

UniProt:

[Q9UHE8](#) [Related reagents](#)

Entrez Gene:

[26872](#) STEAP1 [Related reagents](#)

Synonyms PRSS24, STEAP

Specificity

Rabbit anti Human STEAP1 antibody recognizes STEAP1, also known as six transmembrane epithelial antigen of the prostate. STEAP1 is a ~39 kDa protein and member of a family of cell surface serpentine transmembrane antigens of the prostate.

STEAP1 is predominantly expressed in human prostate and is up-regulated in several cancer lines including prostate, ovarian, cervical, breast, testicular, bladder, colon and Ewing sarcoma. It is significantly expressed at cell-cell junctions and has been shown to be a target of human CD8 T cells. This indicates that it could be used as a potential target for cancer immunotherapy. This antibody does not cross-react with other STEAP-proteins.

Western Blotting

AHP1438 detects a band of approximately 40kDa in human spleen cell lysates.

Further Reading

1. Hubert, R.S. *et al.* (1999) STEAP: a prostate-specific cell-surface antigen highly expressed in human prostate tumors. [Proc Natl Acad Sci U S A. 96 \(25\): 14523-8.](#)
 2. Alves, P.M. *et al.* (2006) STEAP, a prostate tumor antigen, is a target of human CD8+ T cells. [Cancer Immunol Immunother. 55 \(12\): 1515-23.](#)
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Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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'M294568:161005'

Printed on 01 May 2018

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