

Human STEAP1 antibody

Catalog Number: AST0910

PRODUCT INFORMATION

Catalog number

AST0910

Clone No.

J2D2

Product type

Monoclonal Antibody

UnitProt No.

Q9UHE8

NCBI Accession No.

NP_036581

Alternative Names

six transmembrane epithelial antigen of the prostate 1, six transmembrane epithelial antigen of the prostate, PRSS24

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human STEAP1 (1-70aa) purified from E. coli

Isotype

IgG2b kappa

Purification Note

By protein-G affinity chromatography

Application

ELISA, WB, ICC/IF, IHC

Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and IHC analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Six-transmembrane epithelial antigen of the prostate (STEAP) is expressed predominantly in human prostate tissue and in other common malignancies including prostate, bladder, colon, and ovarian carcinomas, and in Ewings sarcoma, suggesting that it could function as an almost universal tumor antigen. Immunohistochemical analysis indicated STEAP-1 localization at cell-cell junctions of the secretory epithelium of prostate and prostate cancer cells. The favorable expression profiling of STEAP-1 in normal and cancer tissues suggested its potential use as a target for immunotherapy.

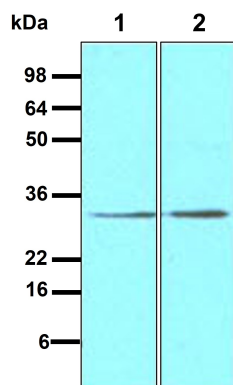
General References

David A. Rodeberg, et al. (2005) Clin Cancer Res. June 11(12): 4545-4552.

Pia M. Challita-Eid, et al., (2007) Cancer research June 67(12): 5798-5805.

DATA

Western blot analysis (WB)

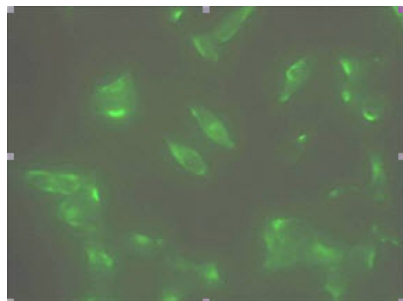


The cell lysates(30ug) and tissue lysates(30ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human STEAP1 antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: LNCap cell lysate

Lane 2.: Mouse Testis Tissue lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

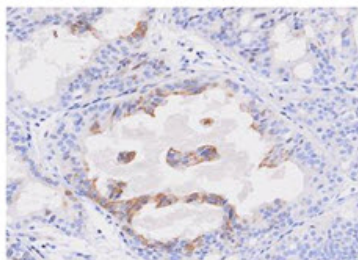


ICC/IF analysis of STEAP1 in LNCap cells. The cell was stained with AST0910 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

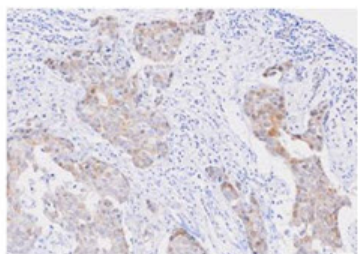
Immunohistochemistry (IHC)

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prostate hyperplasia tissue



Human breast cancer tissue

Paraffin embedded sections of human breast cancer and prostate hyperplasia tissue were incubated with anti-human STEAP1 (1:50) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB)