

STEAP1

Mouse Anti-Human STEAP1 Clone J2D2 mAb

Catalog No.	CMS103A CMS103B	Quantity:	50 µl 100 µl
Alternate Names:	STEAP, PRSS24		
Gene ID:	26872		
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 Ewing's 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.		
Usage:	The antibody has been tested by ELISA, Western blot, immunofluorescence and immunohistochemistry analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended dilution range for Western blot is 1:1,000~1:2,000, immunofluorescence 1:100 ~1:300 and immunohistochemistry analysis is 1:50~100. Recommended starting dilution for Western blot is 1:1,000, Immunofluorescence 1:100 and Immunohistochemistry analysis is 1:50.		
Concentration:	1 mg/ml		
Clone:	Anti-human STEAP1 mAb, clone J2D2, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human STEAP1 protein.		
Host:	Mouse		
Immunogen:	Recombinant human STEAP1 (1-70 aa) purified from <i>E. coli</i>		
Isotype:	IgG2b, k		
Clone:	J2D2		
Formulation:	Liquid. Supplied in Phosphate-Buffered Saline (pH 7.4) with 0.1% Sodium Azide. Precaution: Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.		
Purification:	By protein-G affinity chromatography		
Cross-Reactivity:	Human, Rat		
Applications:	ELISA, WB, Immunofluorescence, Immunohistochemistry		
Application Notes:			



Immunohistochemistry

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)

Immunofluorescence

Immunofluorescence staining of human LNCap cell colony with monoclonal anti- human STEAP1 antibody (J2D2)

Western Blot Analysis

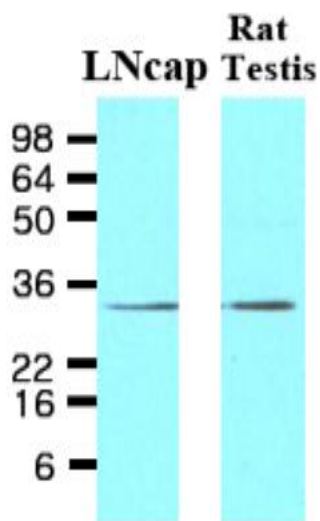
Cell lysates of LNCap (30ug) and Rat testis (30ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human STEAP1 (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Storage & Stability: Can be stored at +4C. For long term storage, aliquot and store at -20C. **Avoid repeated freezing and thawing cycles.**

Western blot analysis

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

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Human breast cancer tissue (left) and prostate hyperplasia tissue (right)

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