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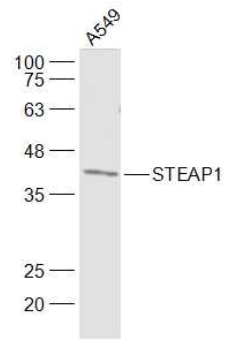
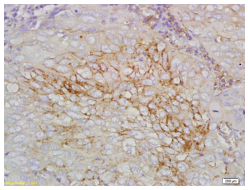
STEAP1 Rabbit pAb

Catalog Number:	bs-1901R
Target Protein:	STEAP1
Concentration:	1mg/ml
Form:	Liquid
Host:	Rabbit
Clonality:	Polyclonal
Isotype:	IgG
Applications:	WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500)
Reactivity:	Human (predicted:Mouse, Rat, Cow, Horse)
Predicted MW:	40 kDa
Subcellular Locations:	Cell membrane ,Cytoplasm
Entrez Gene:	26872
Swiss Prot:	Q9UHE8
Source:	KLH conjugated synthetic peptide derived from human STEAP1: 251-339/339.
Purification:	affinity purified by Protein A
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background:	This gene is predominantly expressed in prostate tissue, and is found to be upregulated in multiple cancer cell lines. The gene product is predicted to be a six transmembrane protein, and was shown to be a cell surface antigen significantly expressed at cell cell junctions. Prostate cancer is the most frequently diagnosed cancer and is the second leading cause of cancer-related deaths in American men. Although the early serum detection of prostate-specific antigen (PSA) plays important roles in early diagnosis, it may not distinguish prostate cancer from benign diseases. Recently, a novel protein, which contains 339 amino acids, named STEAP (six transmembrane epithelial antigen of the prostate), was identified in advanced prostate cancer. STEAP is unique among the currently known prostate cancer markers because of its putative secondary structure, from which one may predict that it functions as a potential channel protein. STEAP is strongly expressed in advanced prostate cancer and some extent expression in other cancers, such as colon and ovarian cancer cell lines.

VALIDATION IMAGES



Sample: A549(Human) Cell Lysate at 30 ug Primary: Anti-STEAP1 (bs-1901R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 40 kD Observed band size: 40 kD



Tissue/cell: human laryngocarcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-STEAP1 Polyclonal Antibody, Unconjugated(bs-1901R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

PRODUCT SPECIFIC PUBLICATIONS

[IF=5.7] Chengji Jin. et al.Contribution of cuproptosis and immune-related genes to idiopathic pulmonary fibrosis disease.FRONT. IMMUNOL..2025 Feb 7:16:1458341. IHC ; Human . 39991151