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Anti-PSCA Antibody

Catalog # AP51454

Product Information

Application	WB, IF/IC
Primary Accession	O43653
Reactivity	Human, Mouse, Rat, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	11959

Additional Information

Gene ID	8000
Other Names	Prostate stem cell antigen
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human PSCA. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

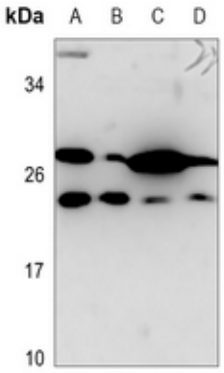
Protein Information

Name	PSCA
Function	May be involved in the regulation of cell proliferation. Has a cell-proliferation inhibition activity in vitro.
Cellular Location	Cell membrane; Lipid-anchor, GPI-anchor
Tissue Location	Highly expressed in prostate (basal, secretory and neuroendocrine epithelium cells). Also found in bladder (transitional epithelium), placenta (trophoblasts), stomach (neuroendocrine cells), colon (neuroendocrine cells) and kidney (collecting ducts) Overexpressed in prostate cancers and expression is correlated with tumor stage, grade and androgen-independence. Highly expressed in prostate cancer bone metastases. Expressed in gastric epithelial cells, mainly in the isthmus (at protein level). Not detected in normal intestinal epithelium (at protein level). Expressed in brain cortex; expression is significantly increased in the front cortex of Alzheimer disease patients.

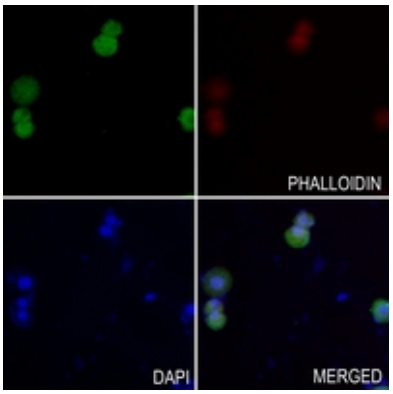
References

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Images



Western blot analysis of PSCA expression in mouse kidney (A), mouse muscle (B), rat kidney (C), rat muscle (D) whole cell lysates. (Predicted band size: 11 kD; Observed band size: 29 kD)



Immunofluorescent analysis of PSCA staining in Hela cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.