

PSCA (PT2119) mouse mAb

Catalog No :	YM4298
Reactivity :	Human;
Applications :	WB;IF;ELISA
Target :	PSCA
Gene Name :	PSCA UNQ206/PRO232
Protein Name :	Prostate stem cell antigen
Human Gene Id :	8000
Human Swiss Prot No :	O43653
Mouse Swiss Prot No :	P57096
Immunogen :	Synthesized peptide derived from human PSCA AA range: 1-100
Specificity :	This antibody detects endogenous levels of PSCA protein.
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Mouse, Monoclonal/IgG2b, kappa
Dilution :	WB 1:500-2000. IF 1:100-500. ELISA 1:1000-5000
Purification :	Protein G
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	13kD
Observed Band :	18kD

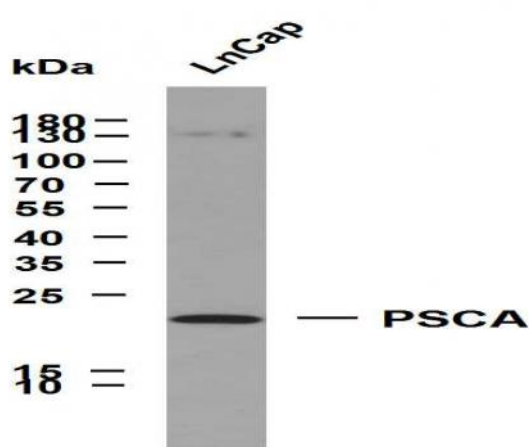
Background : prostate stem cell antigen(PSCA) Homo sapiens This gene encodes a glycosylphosphatidylinositol-anchored cell membrane glycoprotein. In addition to being highly expressed in the prostate it is also expressed in the bladder, placenta, colon, kidney, and stomach. This gene is up-regulated in a large proportion of prostate cancers and is also detected in cancers of the bladder and pancreas. This gene includes a polymorphism that results in an upstream start codon in some individuals; this polymorphism is thought to be associated with a risk for certain gastric and bladder cancers. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2010],

Function : May be involved in the regulation of cell proliferation. Has a cell-proliferation inhibition activity in vitro. ; May act as a modulator of nicotinic acetylcholine receptors (nAChRs) activity. In vitro inhibits nicotine-induced signaling probably implicating alpha-3:beta-2- or alpha-7-containing nAChRs.

Subcellular Location : Cytoplasmic

Expression : 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.

Products Images



Whole cell lysates were separated by 12% SDS-PAGE, and the membrane was blotted with anti-SMMHC (PT2119) antibody. The HRP-conjugated anti-Mouse IgG antibody was used to detect the antibody. Lane 1: LnCap