

Datasheet for ABIN968774

anti-PRSS8 antibody (AA 108-228)



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Overview

Quantity:	150 µg
Target:	PRSS8
Binding Specificity:	AA 108-228
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PRSS8 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Human Prostasin aa. 108-228
Clone:	2-Prostasin
Isotype:	IgG2a
Characteristics:	<ol style="list-style-type: none"> 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	PRSS8
Alternative Name:	Prostasin (PRSS8 Products)
Background:	<p>Prostasin is a serine protease expressed as both GPI-anchored and secreted forms. Prostasin displays trypsin-like enzymatic activity by hydrolyzing substrates, such as D-Pro-Phe-Arg-AMC. This activity is inhibited by aprotinin, antipain, leupeptin, and benzamidine. The highest levels of prostasin protein are found in semen and the prostate, but many other tissues express prostasin at low levels. The sequence of prostasin is similar to other proteases, such as prostase, testisin, plasma kallikrein, and acrosin. In seminal fluid, prostasin can be found in complex with prostasin-binding protein, which can inhibit prostasin enzymatic activity.</p> <p>Prostasin mRNA is found in normal prostate epithelial cells and non-invasive prostate cancer cells, but is not expressed in invasive prostate cancer cell lines. Expression of prostasin in the invasive prostate cancer cell lines, DU-145 and PC-3, reduces the invasiveness of the cells in vitro. Thus, prostasin is a serine protease that may have roles in normal prostate function and in suppression of tumor cell invasion. This antibody is routinely tested by western blot analysis.</p>

Application Details

Comment:	Related Products: ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.

Publications

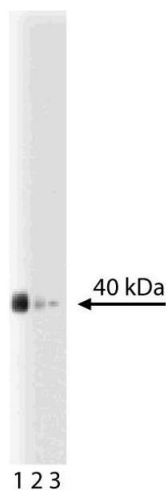
Product cited in:	<p>Chen, Hodge, Guarda, Welch, Greenberg, Chai: "Down-regulation of prostasin serine protease: a potential invasion suppressor in prostate cancer." in: The Prostate, Vol. 48, Issue 2, pp. 93-103, (2001) (PubMed).</p> <p>Chen, Skinner, Kauffman, Chao, Chao, Thaler, Chai: "Prostasin is a glycosylphosphatidylinositol-</p>
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anchored active serine protease." in: **The Journal of biological chemistry**, Vol. 276, Issue 24, pp. 21434-42, (2001) ([PubMed](#)).

Yu, Chao, Chao: "Molecular cloning, tissue-specific expression, and cellular localization of human prostatic mRNA." in: **The Journal of biological chemistry**, Vol. 270, Issue 22, pp. 13483-9, (1995) ([PubMed](#)).

Yu, Chao, Chao: "Prostatic is a novel human serine proteinase from seminal fluid. Purification, tissue distribution, and localization in prostate gland." in: **The Journal of biological chemistry**, Vol. 269, Issue 29, pp. 18843-8, (1994) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot analysis of prostatic in LNCaP-FGC-10 (human prostate cancer cell line) lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the anti-prostatic antibody.