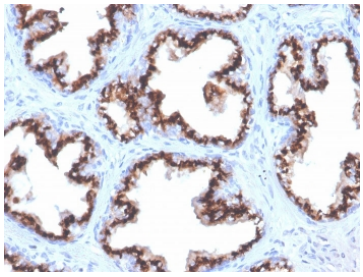
Recombinant Prostein Antibody / SLC45A3 [clone ZR9] (V8600)

Catalog No.	Formulation	Size
V8600-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8600-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8600SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

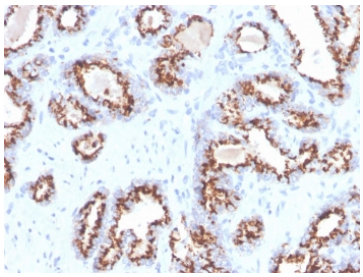
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	ZR9
Purity	Protein A affinity chromatography
UniProt	Q96JT2
Localization	Membrane, Vesicles, Nucleus
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT
Limitations	This recombinant Prostein antibody is available for research use only.



IHC staining of FFPE human prostate carcinoma with recombinant Prostein antibody (clone ZR9). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



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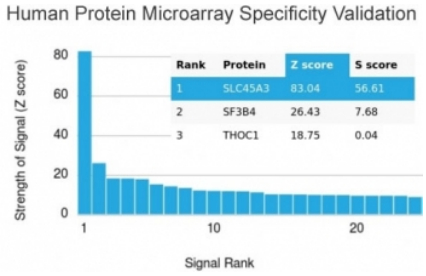

Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using recombinant Prostein antibody (clone ZR9). These results demonstrate the foremost specificity of the ZR9 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

Description

Recombinant Prostein antibody detects prostein, a prostate-specific protein encoded by the SLC45A3 gene. Prostein is a type III transmembrane glycoprotein expressed almost exclusively in prostate epithelial cells. Because of its restricted expression and strong association with prostate cancer pathology, Recombinant Prostein antibody is an important tool in oncology, pathology, and urologic research.

Prostein localizes to the Golgi apparatus and cell membranes of prostate epithelial cells. Its tissue specificity makes it an excellent marker for identifying prostatic origin in tumors, including metastatic lesions. Unlike PSA, which can be elevated in non-malignant conditions, prostein expression remains highly specific to prostate-derived tissues. This specificity has positioned prostein as a useful diagnostic and prognostic marker in clinical research.

The Recombinant Prostein antibody clone ZR9 provides consistent and reliable recognition of this marker. Recombinant production ensures uniformity across lots, reducing experimental variability. Clone ZR9 has been cited in peer-reviewed studies addressing prostate tumor classification and biomarker validation. Its performance supports immunohistochemistry and other tissue-based assays in both basic and translational research.

Research using clone ZR9 has demonstrated the diagnostic value of prostein detection in distinguishing metastatic prostate carcinoma from other adenocarcinomas. This antibody has been particularly helpful in challenging cases where traditional markers are inconclusive. Beyond pathology, studies have suggested that prostein may participate in vesicular trafficking and secretory processes, although its precise biological functions remain under investigation.

NSJ Bioreagents provides this Recombinant Prostein antibody to support oncology, urology, and diagnostic research. Alternate names include SLC45A3 antibody, prostate cancer antigen antibody, Golgi-associated protein antibody, prostate-specific transmembrane protein antibody, and prostatic carcinoma marker antibody.

Application Notes

Optimal dilution of the recombinant Prostein antibody should be determined by the researcher.

Immunogen

An N terminus region peptide from the human protein was used as the immunogen for the recombinant Prostein antibody.

Storage

Store the recombinant Prostein antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).