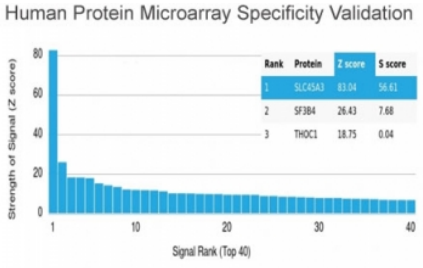
Recombinant Prostein Antibody / SLC45A3 [clone SLC45A3/7176R] (V9764)

Catalog No.	Formulation	Size
V9764-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9764-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9764SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

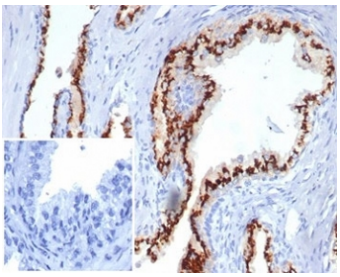
Recombinant RABBIT MONOCLONAL

Bulk quote request

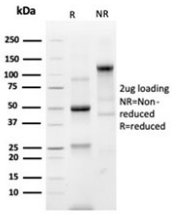
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	SLC45A3/7176R
Purity	Protein A/G affinity
UniProt	Q96JT2
Localization	Membrane, Vesicles, Nucleus
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This recombinant Prostein antibody is available for research use only.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using recombinant Prostein antibody (clone SLC45A3/7176R). These results demonstrate the foremost specificity of the SLC45A3/7176R 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.



IHC staining of FFPE human prostate tissue with recombinant Prostein antibody (clone SLC45A3/7176R). Negative control inset: PBS instead of primary antibody to control for secondary binding. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free recombinant Prostein antibody (clone SLC45A3/7176R) as confirmation of integrity and purity.

Description

Recombinant Prostein antibody detects prostein, a prostate-specific protein encoded by the SLC45A3 gene. Prostein is a type III transmembrane glycoprotein localized to the Golgi apparatus and membranes of prostate epithelial cells. Because of its restricted expression in prostate tissue and tumors, Recombinant Prostein antibody is a key reagent in oncology, pathology, and prostate cancer research.

Prostein expression is highly specific to prostate tissue, making it a valuable marker for determining prostatic origin in both primary tumors and metastases. Unlike PSA, which can be elevated in benign conditions, prostein expression is tightly restricted to prostate epithelium, providing greater specificity. This makes it especially useful in distinguishing prostate carcinoma from other adenocarcinomas during diagnostic evaluation.

The Recombinant Prostein antibody clone SLC45A3/7176R provides consistent and reproducible recognition. Recombinant technology ensures batch-to-batch uniformity, supporting clinical and research use. Clone SLC45A3/7176R has been referenced in peer-reviewed studies addressing prostate tumor classification, biomarker validation, and cancer progression. Its versatility supports immunohistochemistry, immunoblotting, and prostate cancer biomarker studies.

Research using clone SLC45A3/7176R has highlighted how prostein detection complements other prostate markers in diagnostic panels, improving sensitivity and specificity. In oncology, this antibody has been used to explore prosteinâ€™s role in prostate cancer biology and progression. Beyond cancer, studies have suggested roles for prostein in vesicular transport and cellular secretory processes, though these functions remain under investigation.

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

Application Notes

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

Immunogen

A synthesized peptide corresponding to the N terminus of the human protein was used as the immunogen for the recombinant Prostein antibody.

Storage

Aliquot the recombinant Prostein antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.