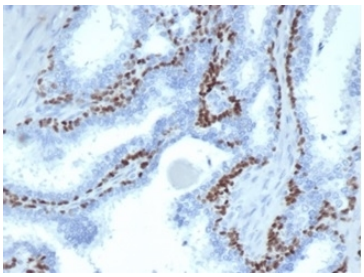
Recombinant p63 Antibody / Tumor protein 63 [clone TP63/4379R] (V9353)

Catalog No.	Formulation	Size
V9353-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9353-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9353SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

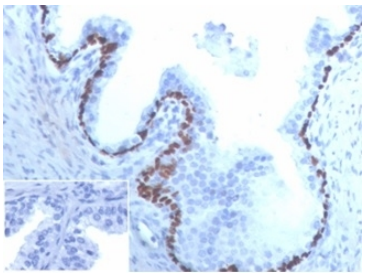
Recombinant RABBIT MONOCLONAL

Bulk quote request

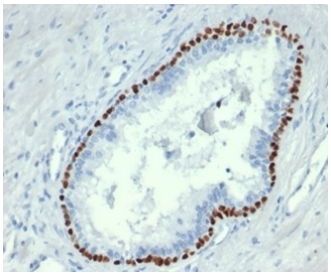
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	TP63/4379R
Purity	Protein A affinity
UniProt	Q9H3D4
Localization	Nucleus
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This recombinant p63 antibody is available for research use only.



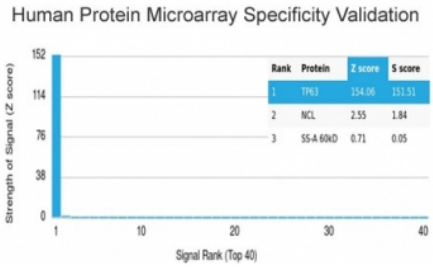
IHC staining of FFPE human prostate cancer with recombinant p63 antibody (clone TP63/4379R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human prostate cancer tissue with recombinant p63 antibody (clone TP63/4379R). 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.



IHC staining of FFPE human prostate cancer tissue with recombinant p63 antibody (clone TP63/4379R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using recombinant p63 antibody (clone TP63/4379R). These results demonstrate the foremost specificity of the TP63/4379R 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 p63 antibody detects tumor protein p63, encoded by the TP63 gene. p63 is a transcription factor belonging to the p53 family, where it regulates epithelial development, stem cell maintenance, and differentiation. Because of its critical role in epithelial biology and its altered expression in cancer, Recombinant p63 antibody is indispensable in oncology, developmental biology, and transcriptional research.

p63 exists in multiple isoforms generated by alternative promoters and splicing, including TAp63 isoforms that contain an N-terminal transactivation domain and ÃŽÂ”Np63 isoforms that lack it. These isoforms perform distinct biological functions, from promoting cell survival to regulating apoptosis and differentiation. Expression of ÃŽÂ”Np63, often referred to as p40, is particularly enriched in squamous epithelium and squamous cell carcinomas, making it a valuable diagnostic marker.

The Recombinant p63 antibody clone TP63/4379R provides reliable and reproducible detection. Recombinant production ensures batch-to-batch consistency, supporting applications that require precision. Clone TP63/4379R has been cited in peer-reviewed studies examining squamous cell carcinoma, epithelial stem cells, and developmental regulation. Its versatility supports immunohistochemistry, Western blotting, and other assays focused on transcription factor expression.

Research using clone TP63/4379R has clarified how p63 expression defines basal epithelial cells and helps distinguish squamous carcinomas from adenocarcinomas. In developmental biology, p63 detection has revealed how this transcription factor regulates limb and craniofacial morphogenesis. In oncology, altered expression of p63 isoforms has been linked to tumor initiation, progression, and response to therapy. This antibody has supported mechanistic studies exploring how p63 integrates developmental and oncogenic signaling pathways.

NSJ Bioreagents supplies this Recombinant p63 antibody to support oncology, pathology, and developmental biology.

Alternate designations include TP63 antibody, tumor protein 63 antibody, ÃŽÂ”Np63 antibody, p40 antibody, epithelial stem cell marker antibody, and transcription factor p63 antibody.

Application Notes

Optimal dilution of the recombinant p63 antibody should be determined by the researcher.

Immunogen

A portion of amino acids 600-680 was used as the immunogen for the recombinant p63 antibody.

Storage

Aliquot the recombinant p63 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.