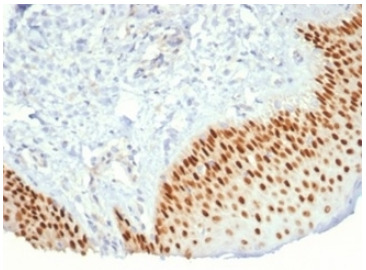
p40 Antibody for IHC / deltaNp63 Immunohistochemistry Antibody [clone P40/7302R] (V9760)

Catalog No.	Formulation	Size
V9760-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9760-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9760SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

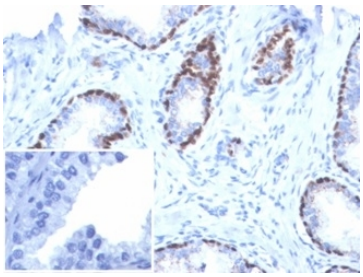
Recombinant RABBIT MONOCLONAL

Bulk quote request

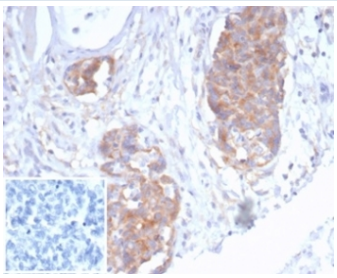
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	P40/7302R
Purity	Protein A affinity
UniProt	Q9H3D4
Localization	Nucleus
Applications	Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This recombinant p40 antibody is available for research use only.



p40 Antibody for IHC. Immunohistochemistry analysis of Tumor protein p40 (deltaNp63) in FFPE human prostate cancer tissue using a p40 Antibody for IHC (clone P40/7302R) demonstrates strong HRP-DAB brown nuclear staining in basal epithelial cells at the periphery of glandular structures, while malignant luminal tumor cells remain negative. The staining forms a continuous basal layer pattern in residual benign glands, clearly delineating glandular architecture and highlighting loss of basal cells in carcinoma regions. The nuclear-restricted signal with minimal background supports accurate interpretation of deltaNp63 expression and epithelial compartmentalization. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 minutes followed by cooling prior to antibody incubation.



p40 Antibody for IHC. Immunohistochemistry analysis of Tumor protein p40 (deltaNp63) in FFPE human prostate cancer tissue using a p40 Antibody for IHC (clone P40/7302R) demonstrates strong HRP-DAB brown nuclear staining in basal epithelial cells outlining benign glandular structures, while malignant luminal tumor cells remain negative. The staining pattern highlights a preserved basal cell layer in non-neoplastic glands and a clear loss of basal cells in carcinoma regions, supporting interpretation of epithelial architecture and tumor-associated changes. The nuclear-restricted signal shows minimal background, enabling confident identification of deltaNp63-positive cell populations. Inset: PBS was used in place of the primary antibody as a negative control, showing no brown signal and confirming specificity of the staining. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 minutes followed by cooling prior to antibody incubation.



p40 Antibody for IHC. Immunohistochemistry analysis of Tumor protein p40 (deltaNp63) in FFPE human ovarian cancer tissue using a p40 Antibody for IHC (clone P40/7302R) demonstrates focal HRP-DAB brown nuclear staining in tumor cell clusters, while surrounding stromal elements remain largely negative. The nuclear-restricted staining pattern supports detection of deltaNp63-positive tumor cells and highlights areas of epithelial differentiation within the tissue. Staining intensity and distribution vary across tumor regions, reflecting heterogeneity in p40 expression. Inset: PBS was used in place of the primary antibody as a negative control, showing no brown signal and confirming specificity of the staining. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 minutes followed by cooling prior to antibody incubation.

Description

Tumor protein p40, corresponding to the deltaNp63 isoform of TP63, is a nuclear transcription factor that is strongly associated with squamous epithelial differentiation and basal cell identity. p40 Antibody for IHC is specifically optimized for immunohistochemistry applications where preservation of tissue architecture and interpretation of nuclear staining patterns are essential. This format allows researchers to evaluate deltaNp63 expression within the context of intact histology, making it particularly valuable for studies of epithelial organization and tumor phenotype.

p40 antibody, also known as deltaNp63 antibody in the literature, selectively detects the deltaNp63 isoform and provides greater specificity than broader p63 antibodies. In tissue-based analysis, this specificity translates into more precise identification of squamous and basal epithelial cells, reducing ambiguity and improving interpretability of staining patterns. p40 Antibody for IHC produces nuclear staining that aligns closely with lineage-associated biology and tissue morphology.

The IHC differentiator is especially powerful because chromogenic detection allows direct visualization of staining within the structural framework of the tissue. p40 Antibody for IHC highlights basal cell layers, squamous epithelial compartments, and tumor regions with squamous differentiation, while leaving stromal and non-epithelial cells largely unstained. This creates a clear contrast that supports accurate interpretation of cell identity and tissue organization.

Clone P40/7302R is a recombinant rabbit monoclonal antibody, providing strong affinity, reproducible performance, and well-defined nuclear staining. The rabbit monoclonal format supports high signal intensity and crisp nuclear localization, while the recombinant design ensures consistency across lots. These characteristics are particularly important in IHC, where subtle differences in staining pattern can influence interpretation of tissue structure and lineage relationships.

In practical applications, p40 Antibody for IHC enables researchers to distinguish basal epithelial cells from luminal or stromal compartments, assess squamous differentiation within tumors, and evaluate epithelial organization in normal and diseased tissues. The nuclear-restricted staining pattern integrates directly with histological features, allowing confident interpretation even in complex or heterogeneous samples.

p40 Antibody for IHC is especially useful for studies focused on epithelial lineage, squamous differentiation, and tissue-based analysis of deltaNp63 expression. Its isoform specificity ensures that staining reflects the biologically relevant p40 isoform, while the chromogenic readout supports clear visualization within preserved tissue architecture.

Tumor protein p40 antibody clone P40/7302R provides a robust tool for immunohistochemical detection of deltaNp63, combining isoform specificity, recombinant rabbit monoclonal performance, and morphology-driven interpretation for studies of epithelial biology, tissue organization, and squamous tumor phenotype.

Application Notes

Optimal dilution of the p40 Antibody for IHC / deltaNp63 Immunohistochemistry Antibody should be determined by the researcher.

Immunogen

A portion of amino acids 1-200 was used as the immunogen for the p40 Antibody for IHC / deltaNp63 Immunohistochemistry Antibody.

Storage

Aliquot the recombinant p40 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

p40 immunohistochemistry antibody, deltaNp63 IHC antibody, p40 squamous marker antibody, deltaNp63 pathology antibody

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