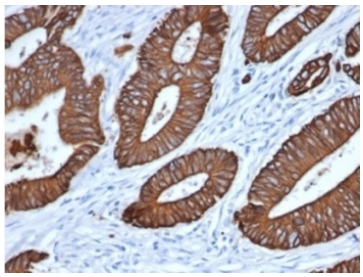
Pan Cytokeratin Antibody / Epithelial Screening Marker [clone MonoPoly/7249R] (V9700)

Catalog No.	Formulation	Size
V9700-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9700-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9700SAF-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	MonoPoly/7249R
Purity	Protein A affinity
Localization	Cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This Pan Cytokeratin Antibody / Epithelial Screening Marker is available for research use only.



Pan Cytokeratin Antibody human colon IHC. Immunohistochemistry analysis of cytokeratin expression in FFPE human colon tissue using Pan Cytokeratin antibody clone MonoPoly/7249R. Strong cytoplasmic HRP-DAB brown staining highlights epithelial cells lining glandular structures, enabling rapid identification of epithelial compartments within the tissue while surrounding stromal elements remain negative. The staining pattern supports efficient epithelial screening and clear visualization of glandular architecture. HIER was performed by boiling tissue sections in pH 9 10 mM Tris with 1 mM EDTA for 20 minutes followed by cooling prior to antibody incubation.

Description

Cytokeratins are intermediate filament proteins that are consistently expressed in epithelial cells, where they contribute to cellular structure and define epithelial identity. These proteins form cytoskeletal networks through pairing of type I and type II keratins, creating a filament system that is characteristic of epithelial lineage. Because cytokeratin expression is

largely restricted to epithelial cells, detection of these proteins provides a reliable method for identifying epithelial components within complex tissue environments.

Pan Cytokeratin Antibody / Epithelial Screening Marker (clone MonoPoly/7249R) is designed for rapid and efficient identification of epithelial cells in immunohistochemistry applications. This recombinant rabbit monoclonal antibody provides broad detection of cytokeratin proteins, enabling quick assessment of epithelial presence in tissue sections. Pan cytokeratin antibody, also referred to as cytokeratin cocktail antibody or CK pan antibody, is commonly used as a first-line marker in tissue analysis workflows.

In tissue sections, cytokeratin staining produced by this antibody appears as strong cytoplasmic labeling of epithelial cells, allowing immediate visualization of epithelial structures within complex samples. The clear contrast between cytokeratin-positive epithelial cells and cytokeratin-negative stromal or hematopoietic components supports rapid interpretation and efficient identification of epithelial regions.

The broad detection profile of clone MonoPoly/7249R enables identification of epithelial cells across diverse tissue types, including both normal and tumor samples. This makes it particularly useful for initial screening applications, where the primary objective is to determine whether epithelial cells are present before applying more specific markers.

In tumor analysis, pan cytokeratin screening enables rapid identification of epithelial-derived tumor cells and supports differentiation of carcinomas from non-epithelial malignancies. The strong and consistent staining pattern allows quick recognition of epithelial tumor components, facilitating downstream analysis and classification.

The recombinant rabbit format provides strong signal intensity and reproducible staining performance, supporting reliable results across experiments. This consistency is particularly important in screening workflows, where rapid and dependable identification of epithelial cells is required.

Because this antibody is designed for screening rather than detailed characterization, it is not intended for analysis of specific keratin isoforms or epithelial subtypes. Instead, it provides an efficient and broadly reactive tool for identifying epithelial cells as an initial step in tissue evaluation.

In workflows involving multiple markers, pan cytokeratin screening serves as a foundational step that guides selection of additional antibodies for more detailed analysis. This makes it a practical component of structured tissue evaluation strategies.

Pan Cytokeratin Antibody clone MonoPoly/7249R therefore provides a streamlined and effective approach for epithelial screening, enabling rapid identification of epithelial cells and supporting efficient analysis of complex tissue samples.

This antibody is part of our Pan Cytokeratin Antibody collection, which enables broad epithelial detection across normal and cancer tissues.

Application Notes

Optimal dilution of the Pan Cytokeratin Antibody / Epithelial Screening Marker should be determined by the researcher.

This antibody cocktail recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, which 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 52kDa (CK8); 56.5kDa (CK10); 50kDa (CK14); 50kDa (CK15); 48kDa (CK16); 40kDa (CK19).

Immunogen

Synthetic peptides from human KRT76 and KRT77 proteins were used as the immunogen for the Pan Cytokeratin antibody.

Storage

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

Alternate Names

Pan cytokeratin antibody IHC, cytokeratin screening antibody, epithelial detection marker antibody, CK pan carcinoma identification antibody, cytokeratin lineage marker antibody