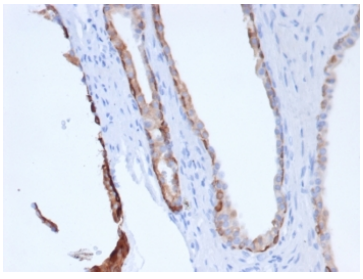
Pan CK Antibody / Epithelial Marker Antibody [clone Cocktail rPCK/6750] (V9362)

Catalog No.	Formulation	Size
V9362-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9362-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9362SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

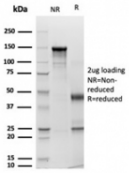
Recombinant | MOUSE MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	Cocktail rPCK/6750
Purity	Protein A/G affinity
Localization	Cytoplasmic
Applications	Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This Pan CK Antibody / Epithelial Marker Antibody is available for research use only.



Pan CK Antibody human prostate IHC. Immunohistochemistry analysis of cytokeratin expression in FFPE human prostate tissue using Pan CK antibody clone rPCK/6750. Cytoplasmic HRP-DAB brown staining highlights epithelial cells lining glandular structures, clearly distinguishing epithelial compartments from surrounding stromal tissue. The staining pattern supports rapid identification of epithelial cells and 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.



SDS-PAGE analysis of purified, BSA-free Pan CK Antibody / Epithelial Marker Antibody (Cocktail rPCK/6750) as confirmation of integrity and purity.

Description

Cytokeratins are a major class of intermediate filament proteins that form an extensive cytoskeletal network within epithelial cells, where they maintain cellular integrity, support mechanical stability, and preserve tissue architecture. These proteins are divided into type I acidic and type II basic keratins, which heterodimerize to assemble filamentous structures throughout the cytoplasm. The presence of cytokeratin filaments is a defining feature of epithelial cells, and their expression is largely absent from mesenchymal, hematopoietic, and most stromal cell types. As a result, detection of cytokeratin proteins provides a reliable and widely used method for identifying epithelial lineage in tissue samples.

Pan CK Antibody / Epithelial Marker Antibody (clone rPCK/6750) is designed for broad detection of cytokeratin proteins in immunohistochemistry, enabling rapid and consistent identification of epithelial cells using the widely recognized pan CK designation. Pan CK antibody, also referred to as CK pan antibody or cytokeratin pan antibody, is commonly used as a shorthand epithelial marker in tissue analysis workflows, where quick recognition of epithelial origin is required. This recombinant mouse monoclonal antibody provides strong and reproducible recognition of cytokeratin proteins across a wide range of epithelial tissues.

In immunohistochemistry, pan CK staining appears as strong cytoplasmic labeling of epithelial cells, reflecting the underlying intermediate filament network. This staining pattern enables clear visualization of epithelial structures and allows epithelial cells to be readily distinguished from surrounding stromal, mesenchymal, and inflammatory components. The resulting contrast supports efficient interpretation of tissue composition and facilitates identification of epithelial compartments within complex samples.

Pan CK detection is particularly valuable in workflows where rapid epithelial identification is required as an initial step in tissue evaluation. The use of the Ã¢Â€Âœpan CKÃ¢Â€Â• designation reflects its role as a broadly reactive epithelial marker that can be applied across diverse tissue types without the need for isoform-specific antibodies. This makes it an effective first-line marker for identifying epithelial cells prior to more detailed analysis using specialized markers.

In tumor samples, pan CK staining highlights epithelial-derived tumor cells and supports identification of carcinoma structures, including glandular formations, solid tumor nests, and invasive fronts. The ability to clearly distinguish epithelial tumor cells from non-epithelial components is critical for evaluating tumor composition and confirming epithelial origin. In cases where tumor morphology is ambiguous, cytokeratin positivity provides strong evidence of epithelial lineage.

The recombinant mouse monoclonal format of clone rPCK/6750 provides consistent staining performance and reproducible results across experiments. The antibody is designed to recognize multiple cytokeratin proteins, ensuring broad epithelial detection while maintaining strong signal intensity and clear staining patterns. This combination of broad reactivity and reproducibility supports reliable performance in routine tissue analysis.

Because this antibody is designed for broad cytokeratin detection, it is not intended for isoform-specific analysis of individual keratins. Instead, it provides a comprehensive epithelial marker that complements more specialized antibodies used to define epithelial subtypes, differentiation states, or tissue-specific expression patterns.

In structured tissue analysis workflows, pan CK staining serves as a foundational step that guides subsequent marker selection and interpretation. Its ability to rapidly identify epithelial components makes it particularly useful in studies

involving heterogeneous tissues and tumor samples where clear distinction between epithelial and non-epithelial elements is essential.

Pan CK Antibody clone rPCK/6750 therefore provides a robust and practical tool for epithelial detection, enabling rapid identification of epithelial cells, clear visualization of tissue organization, and confident identification of carcinoma cells in immunohistochemistry applications.

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 CK Antibody / Epithelial Marker Antibody should be determined by the researcher.

Immunogen

Crude cytokeratin extract prepared from RT-4 and MCF-7 cells was used as the immunogen for the recombinant Pan-CK antibody.

Storage

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

Alternate Names

Pan CK antibody IHC, pan CK epithelial marker antibody, CK pan antibody, cytokeratin pan CK antibody, epithelial marker CK antibody