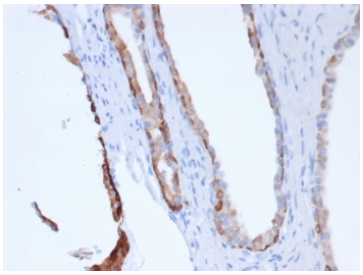
Recombinant Pan CK Antibody rPCK/6750 / Pan CK Antibody Cocktail [clone Cocktail rPCK/6750] (V9362)

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

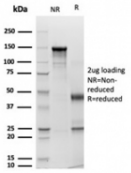
Recombinant MOUSE MONOCLONAL

Bulk quote request

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 Recombinant Pan CK Antibody rPCK/6750 / Pan CK Antibody Cocktail is available for research use only.



Recombinant Pan CK Antibody rPCK/6750 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 Recombinant Pan CK Antibody rPCK/6750 as confirmation of integrity and purity.

Description

Recombinant Pan CK Antibody rPCK/6750 is a recombinant mouse monoclonal antibody cocktail designed to recognize multiple cytokeratin proteins expressed in epithelial cells. Cytokeratins are intermediate filament proteins that form an extensive cytoskeletal network, providing mechanical strength and maintaining cellular architecture. They are divided into type I acidic and type II basic keratins, which assemble as heterodimers before forming mature intermediate filaments. Different epithelial tissues express characteristic combinations of cytokeratins, making their detection valuable for investigating epithelial identity, differentiation, and tissue organization.

Broad-spectrum cytokeratin detection is particularly useful when the epithelial origin of a cell population is known or suspected but its precise differentiation state remains uncertain. Stratified squamous epithelia express keratins associated with basal and suprabasal differentiation, whereas simple glandular epithelia typically express different keratin combinations. Antibodies recognizing multiple cytokeratins can therefore identify epithelial populations across a wider range of tissues than antibodies directed against a single keratin isoform. However, no individual pan cytokeratin reagent necessarily recognizes every member of the keratin family.

In cancer research, pan cytokeratin antibodies are widely used to identify carcinoma cells and distinguish epithelial tumor populations from surrounding stromal, inflammatory, and other non-epithelial cells. Cytoplasmic cytokeratin staining can reveal tumor nests, glandular structures, and epithelial components within heterogeneous tissue specimens. Broad epithelial markers are also useful in studies of tumor invasion, tissue remodeling, and epithelial-mesenchymal transition, where changes in epithelial protein expression may accompany alterations in cellular phenotype. Cytokeratin detection is commonly combined with additional markers to characterize tumor lineage and differentiation more precisely.

NSJ Bioreagents offers recombinant mouse monoclonal cocktail rPCK/6750, developed using a crude cytokeratin extract prepared from RT-4 and MCF-7 cells as immunogen. Its recombinant format provides a defined antibody preparation intended to support consistent experimental performance. The Pan CK Antibody Cocktail is suitable for investigating epithelial cell distribution and cytokeratin expression in human tissues. A Recombinant Pan CK Antibody provides a useful approach for identifying epithelial compartments, examining tissue architecture, and studying carcinoma-associated epithelial differentiation.

Explore our widely cited Pan Cytokeratin Antibody AE1/AE3 cocktail for broad epithelial cell identification, carcinoma research, and detection of acidic and basic cytokeratins.

Application Notes

Optimal dilution of the Recombinant Pan CK Antibody rPCK/6750 / Pan CK Antibody Cocktail 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 rPCK/6750.

Storage

Aliquot the Recombinant Pan CK Antibody rPCK/6750 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

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