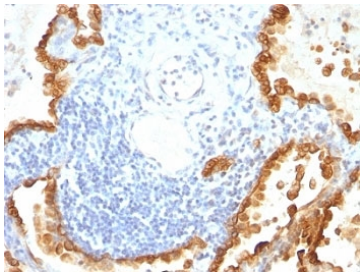
Cytokeratin 8/18 Antibody Cocktail [clone KRT8/803 + KRT18/835] (V3068)

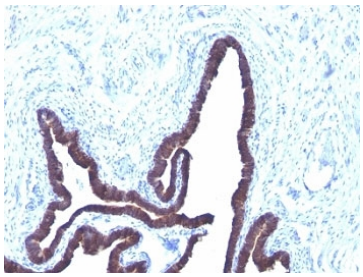
Catalog No.	Formulation	Size
V3068-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3068-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3068SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3068IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

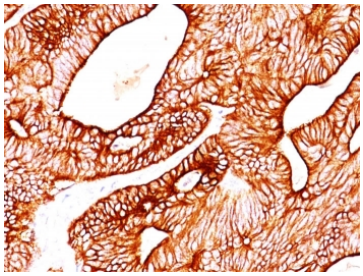
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	KRT8/803 + KRT18/835
Purity	Protein G affinity chromatography
UniProt	P05787, P05783
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE) : 0.1-0.2ug/ml for 30 min at RT
Limitations	This Cytokeratin 8/18 antibody cocktail is available for research use only.



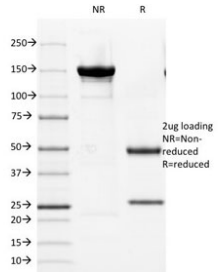
IHC: Formalin-fixed, paraffin-embedded human lung carcinoma stained with Cytokeratin 8/18 antibody (KRT8/803 + KRT18/835).



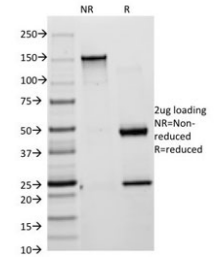
IHC: Formalin-fixed, paraffin-embedded human ovarian carcinoma stained with Cytokeratin 8/18 antibody (KRT8/803 + KRT18/835).



IHC: Formalin-fixed, paraffin-embedded human colon carcinoma stained with Cytokeratin 8/18 antibody (KRT8/803 + KRT18/835).



SDS-PAGE analysis of purified, BSA-free Cytokeratin 8 antibody (clone KRT8/803) as confirmation of integrity and purity.



SDS-PAGE analysis of purified, BSA-free Cytokeratin 18 antibody (clone KRT18/835) as confirmation of integrity and purity.

Description

Cytokeratin 8/18 antibody clones KRT8/803 and KRT18/835 are monoclonal antibodies that together detect cytokeratin 8 and cytokeratin 18, type II and type I intermediate filament proteins respectively. CK8 and CK18 form heterodimers that are widely expressed in simple epithelia lining glandular and parenchymal tissues, including liver, pancreas, lung, and gastrointestinal tract. NSJ Bioreagents offers this antibody combination for oncology, hepatology, and epithelial biology research.

The antibodies produce strong cytoplasmic staining in simple epithelia and adenocarcinomas. In pathology, CK8/18 detection is one of the most widely used tools for confirming epithelial lineage. It helps classify adenocarcinomas and supports differentiation of epithelial tumors from mesenchymal, lymphoid, or neuroendocrine neoplasms.

In oncology, cytokeratin 8/18 antibody clones KRT8/803 and KRT18/835 are applied to tumor classification, prognosis, and therapy studies. Aberrant expression or loss of CK8/18 is linked to epithelial-to-mesenchymal transition, tumor invasion, and metastasis. By detecting CK8/18, this antibody pair provides insights into tumor differentiation and aggressiveness.

In hepatology, CK8/18 detection is a gold standard for identifying hepatocytes and liver-derived tumors. The antibodies

have been applied to research on hepatocellular carcinoma, cholangiocarcinoma, and liver regeneration. They also provide insight into intermediate filament organization and liver disease progression.

In cell biology, CK8 and CK18 are markers of simple epithelial cells and are frequently used to monitor differentiation and cytoskeletal remodeling. Detection with this antibody combination supports studies into epithelial plasticity, apoptosis, and cellular stress responses.

The antibodies have also been used in developmental and regenerative biology to track epithelial maturation in embryonic tissues. Their consistent detection across multiple systems makes them versatile reagents for a broad range of applications.

Validated across tissue-based and cell-based assays, these antibodies consistently provide strong cytoplasmic staining with minimal background. Alternate names include CK8 antibody and CK18 antibody, cytokeratin 8/18 intermediate filament antibody, and epithelial marker antibody.

Application Notes

Optimal dilution of the Cytokeratin 8/18 antibody cocktail should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Recombinant full-length human KRT8 protein (KRT8/803) and KRT18 protein (KRT18/835) were used as the immunogen for the Cytokeratin 8/18 antibody cocktail.

Storage

Store the Cytokeratin 8/18 antibody cocktail at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).