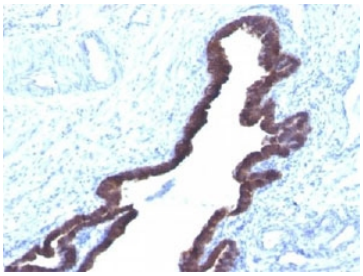
Cytokeratin 8/18 Antibody Cocktail [clone K8.8 + DC10] (V2325)

Catalog No.	Formulation	Size
V2325-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2325-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2325SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2325IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

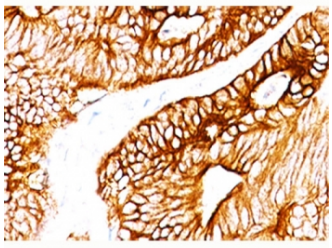
Citations (7)

Bulk quote request

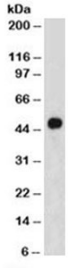
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	K8.8 + DC10
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
Gene ID	3856
Localization	Cytoplasmic
Applications	Flow Cytometry : 1-2ug/10^6 cells Immunofluorescence : 1-2ug/ml Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This **Cytokeratin 8/18 antibody** is available for research use only.



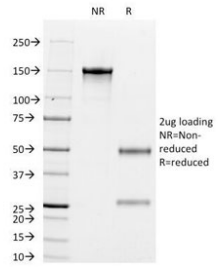
IHC staining of FFPE human ovarian cancer with Cytokeratin 8/18 antibody (K8.8 + DC10).



IHC staining of FFPE human colon carcinoma with Cytokeratin 8/18 antibody (K8.8 + DC10).



Western blot testing of HeLa cell lysate using Cytokeratin 8/18 antibody cocktail at 1ug/ml. Observed molecualr weight: 46~50 kDa.



SDS-PAGE Analysis of Purified, BSA-Free Cytokeratin 8/18 Antibody Cocktail (clones K8.8 + DC10). Confirmation of Integrity and Purity of the Antibody.

Description

Cytokeratin 8/18 antibody clones K8.8 + DC10 are monoclonal antibodies directed against cytokeratins 8 and 18, two intermediate filament proteins that form heterodimers in simple epithelia. These keratins contribute to the structural integrity of epithelial cells and are widely expressed in glandular and transitional epithelia. Because of their tissue-specific expression, cytokeratins 8 and 18 are important diagnostic markers for epithelial-derived tumors, particularly adenocarcinomas. NSJ Bioreagents provides Cytokeratin 8/18 antibody clones K8.8 + DC10 for reliable detection of these intermediate filament proteins in both basic and clinical research.

Cytokeratin 8/18 antibody clones K8.8 + DC10 produce strong cytoplasmic staining in epithelial cells. Their dual specificity ensures detection of the heterodimer complex, making them a comprehensive marker for simple epithelia. In diagnostic pathology, this antibody combination is frequently used to identify epithelial origin in tumors. It is especially valuable in distinguishing adenocarcinomas from mesenchymal or hematopoietic malignancies.

In cancer research, Cytokeratin 8/18 antibody clones K8.8 + DC10 help characterize tumors of epithelial origin, including breast, prostate, gastrointestinal, and ovarian carcinomas. Their detection provides insight into tumor differentiation, progression, and metastatic potential. Researchers often use this antibody pair in panels with other cytokeratins to refine tumor classification and subtype identification.

Beyond oncology, Cytokeratin 8/18 antibody clones K8.8 + DC10 are employed in cell biology to study epithelial polarity, differentiation, and stress responses. Cytokeratins 8 and 18 play roles in protecting cells from mechanical and non-mechanical stress, and altered expression patterns have been linked to apoptosis and tissue injury.

This antibody combination has also been applied to regenerative medicine and developmental biology, where detection of cytokeratins 8 and 18 helps identify progenitor cell populations in epithelial lineages. Their reproducible cytoplasmic staining has been cited in studies ranging from embryogenesis to wound healing.

Validated for tissue-based and cell-based assays, Cytokeratin 8/18 antibody clones K8.8 + DC10 consistently deliver clear and specific results. Alternate names include keratin 8 antibody, keratin 18 antibody, epithelial keratin marker antibody, and adenocarcinoma marker antibody.

Application Notes

Differences in protocols and secondaries may require the Cytokeratin 8/18 antibody to be titered for optimal performance.

1. FFPE staining requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 minutes.
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

A keratin preparation from a human carcinoma (K8.8) and PMC-42 human breast carcinoma cells (DC10) were used as the immunogen for this 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).

References (2)