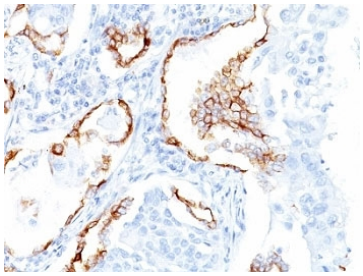
Keratin 7 Antibody / Cytokeratin 7 [clone K72.7] (V2656)

Catalog No.	Formulation	Size
V2656-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2656-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2656SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2656IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

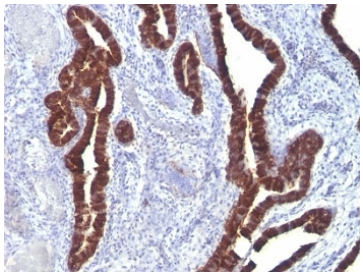
Citations (7)

Bulk quote request

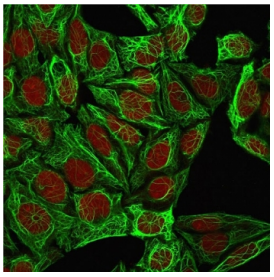
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	K72.7
Purity	Protein G affinity chromatography
UniProt	P08729
Localization	Cytoplasmic
Applications	Flow Cytometry : 0.5-1ug/10^6 cells Immunofluorescence : 1-2ug/ml Western Blot : 0.5-2ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml for 30 min at RT
Limitations	This Keratin 7 antibody is available for research use only.



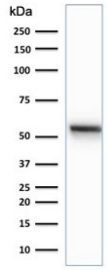
IHC: Formalin-fixed, paraffin-embedded human lung SCC stained with Keratin 7 antibody (clone K72.7).



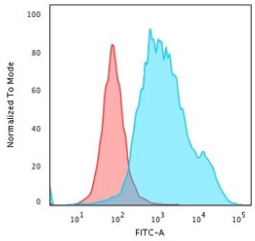
IHC: Formalin-fixed, paraffin-embedded ovarian carcinoma stained with Keratin 7 antibody (clone K72.7).



Immunofluorescent staining of methanol-fixed human HeLa cells with Cytokeratin 7 antibody (green, clone K72.7) and Reddot nuclear stain (red).



Western blot testing of human HeLa cell lysate with Cytokeratin 7 antibody (clone K72.7).



Flow cytometry testing of PFA-fixed human HeLa cells with Cytokeratin 7 antibody (clone K72.7); Red=isotype control, Blue= recombinant Cytokeratin 7 antibody.

Description

Keratin 7 antibody clone K72.7 is a monoclonal antibody that detects keratin 7, an intermediate filament protein characteristic of simple and glandular epithelia. Keratin 7 expression is common in lung, breast, and female genital tract epithelium but absent from gastrointestinal epithelium, making it a widely used marker in pathology. NSJ Bioreagents provides Keratin 7 antibody clone K72.7 for oncology, diagnostic pathology, and epithelial research.

The antibody produces clear cytoplasmic staining in epithelial tissues that express keratin 7. In diagnostic pathology, it is frequently paired with keratin 20 antibodies to establish CK7/CK20 expression profiles. These profiles allow pathologists to distinguish tumor types and predict their site of origin. For example, lung adenocarcinomas are CK7 positive/CK20 negative, while colorectal adenocarcinomas are CK7 negative/CK20 positive.

In oncology, Keratin 7 antibody clone K72.7 has been applied to studies of breast and ovarian carcinomas, where keratin 7 expression helps confirm tumor lineage. It also aids in evaluating tumor spread and metastatic disease.

The antibody has been used in developmental biology to study epithelial differentiation and cytoskeletal regulation. It highlights how intermediate filaments contribute to structural integrity and cell polarity in glandular epithelia.

Validated across tissue-based and cell-based systems, the antibody consistently delivers strong and specific cytoplasmic staining. Alternate names include CK7 antibody, cytokeratin 7 antibody, and type II keratin antibody.

This mAb is highly useful in distinguishing ovarian carcinomas (keratin 7+) from colon carcinomas (keratin 7-).

Application Notes

Optimal dilution of the Keratin 7 antibody should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate buffer, pH 6.0, 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 semi-purified cytokeratin preparation was used as the immunogen for the Keratin 7 antibody.

Storage

Store the Keratin 7 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).