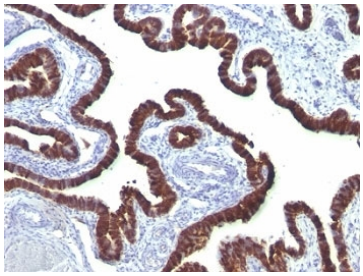
Cytokeratin 7 Antibody [clone OV-TL12/30] (V2654)

Catalog No.	Formulation	Size
V2654-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2654-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2654SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2654IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

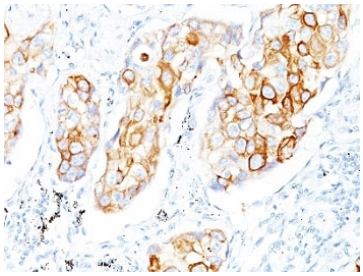
Citations (11)

Bulk quote request

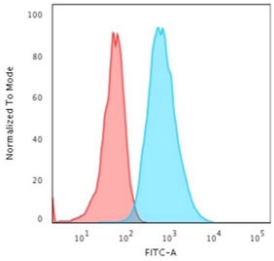
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	OV-TL12/30
Purity	Protein G affinity chromatography
UniProt	P08729
Localization	Cytoplasmic
Applications	Western Blot : 1-2ug/ml Flow Cytometry : 1-2ug/10^6 cells Immunofluorescence : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This Cytokeratin 7 antibody is available for research use only.



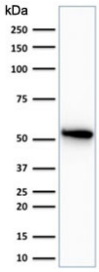
IHC: Formalin-fixed, paraffin-embedded ovarian carcinoma stained with Cytokeratin 7 antibody (clone OV-TL12/30). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



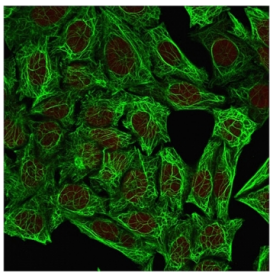
IHC: Formalin-fixed, paraffin-embedded human lung SCC stained with Cytokeratin 7 antibody (clone OV-TL12/30). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



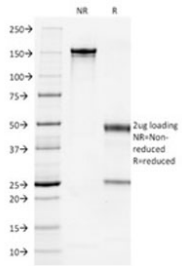
Flow cytometry testing of PFA-fixed human HeLa cells with Cytokeratin 7 antibody (clone OV-TL12/30); Red=isotype control, Blue= recombinant Cytokeratin 7 antibody.



Western blot testing of human HeLa cell lysate with Cytokeratin 7 antibody (clone OV-TL12/30).



Immunofluorescent staining of methanol-fixed human HeLa cells with Cytokeratin 7 antibody.



SDS-PAGE analysis of purified, BSA-free Cytokeratin 7 antibody (clone OV-TL12/30) as confirmation of integrity and purity.

Description

Cytokeratin 7 antibody clone OV-TL12/30 is a monoclonal antibody that detects keratin 7, a type II intermediate filament protein found in simple epithelia. Cytokeratin 7 is expressed in the epithelia of lung, breast, ovary, and urinary tract but absent from gastrointestinal and squamous epithelia. This restricted expression pattern makes it a valuable diagnostic marker for identifying tissue origin and characterizing carcinomas. NSJ Bioreagents provides Cytokeratin 7 antibody clone OV-TL12/30 as a trusted reagent for pathology, oncology, and epithelial biology studies.

The antibody produces strong cytoplasmic staining in glandular and transitional epithelial cells. In pathology, it is

frequently used to differentiate carcinomas by immunoprofiling. Cytokeratin 7 expression, when combined with markers such as cytokeratin 20, provides a powerful tool to distinguish between primary and metastatic tumors. For example, breast and lung adenocarcinomas are typically CK7 positive, while colorectal carcinomas are CK7 negative, making this antibody an essential component of diagnostic panels.

In oncology, Cytokeratin 7 antibody clone OV-TL12/30 has been employed in studies of ovarian, breast, and lung cancers. Its detection supports research into tumor classification, progression, and therapeutic response. It has also been applied to identify circulating tumor cells in patient samples, providing insight into metastasis.

Beyond oncology, the antibody has applications in developmental biology, where keratin 7 expression helps define epithelial differentiation. It has been used to study the formation and specialization of glandular and transitional epithelium.

Validated in tissue-based and cell-based assays, the antibody consistently produces reliable cytoplasmic staining with minimal background. Alternate names include CK7 antibody, keratin 7 antibody, and type II cytokeratin antibody.

Application Notes

The stated application concentrations are suggested starting amounts. Optimal dilution of the Cytokeratin 7 antibody should be determined by the researcher.

1. 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.
3. View the recombinant version of this Cytokeratin 7 antibody.

Immunogen

OTN 11 cells (ovarian carcinoma cell line) were used as the immunogen for the Cytokeratin 7 antibody.

Storage

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