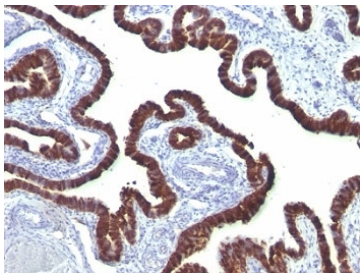
Cytokeratin 7 Antibody OV-TL12/30 / KRT7 Mouse Monoclonal [clone OV-TL12/30] (V2654)

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

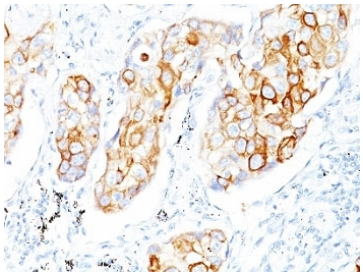
Citations (11)

Bulk quote request

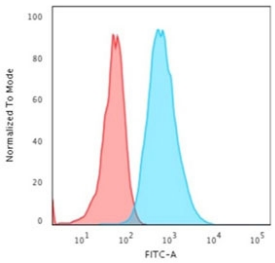
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	OV-TL12/30
Purity	Protein G affinity chromatography
UniProt	P08729
Localization	Cytoplasmic
Applications	Western Blot : 1-2ug/ml (Human/Rabbit) Flow Cytometry : 1-2ug/10^6 cells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



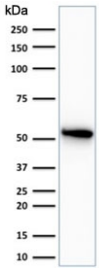
Cytokeratin 7 Antibody OV-TL12/30 by IHC in Human Ovarian Carcinoma. Immunohistochemistry staining of FFPE human ovarian carcinoma tissue using mouse monoclonal Cytokeratin 7 antibody OV-TL12/30. Heat-induced epitope retrieval was performed by boiling tissue sections in 10 mM citrate buffer at pH 6 for 10-20 minutes, followed by cooling before testing. This experiment evaluates Keratin 7 expression in ovarian carcinoma tissue.



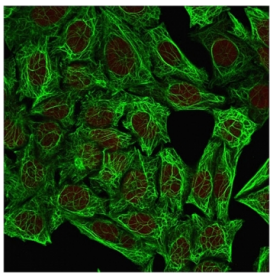
Cytokeratin 7 Antibody OV-TL12/30 by IHC in Human Lung Squamous Cell Carcinoma. Immunohistochemistry staining of FFPE human lung squamous cell carcinoma tissue using mouse monoclonal Cytokeratin 7 antibody OV-TL12/30. Heat-induced epitope retrieval was performed by boiling tissue sections in 10 mM citrate buffer at pH 6 for 10-20 minutes, followed by cooling before testing. This experiment evaluates Keratin 7 expression in human lung squamous cell carcinoma tissue.



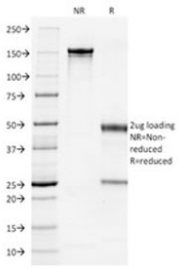
Cytokeratin 7 Antibody OV-TL12/30 by FACS in Human HeLa Cells. Flow cytometry analysis of paraformaldehyde-fixed human HeLa cells using mouse monoclonal Cytokeratin 7 antibody OV-TL12/30. The histogram compares antibody-stained cells (blue) with the isotype control (red), evaluating intracellular Keratin 7 detection.



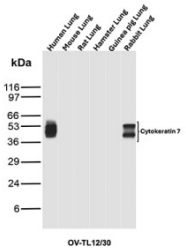
Cytokeratin 7 Antibody OV-TL12/30 by WB in Human HeLa Cell Lysate. Western blot analysis of human HeLa cell lysate using mouse monoclonal Cytokeratin 7 antibody OV-TL12/30. The experiment evaluates detection of Keratin 7, a type II intermediate filament protein with a predicted molecular weight of approximately 51 kDa.



Cytokeratin 7 Antibody OV-TL12/30 by IF in Human HeLa Cells. Immunofluorescence staining of methanol-fixed human HeLa cells using mouse monoclonal Cytokeratin 7 antibody OV-TL12/30. This experiment examines the intracellular distribution of Keratin 7 in cultured human epithelial cells.



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



Cytokeratin 7 Antibody OV-TL12/30 by WB in Lung Tissue Lysates from Multiple Species. Western blot analysis of human, mouse, rat, hamster, guinea pig, and rabbit lung tissue lysates using mouse monoclonal Cytokeratin 7 antibody OV-TL12/30. Lanes 1-6 correspond to human, mouse, rat, hamster, guinea pig, and rabbit lung, respectively. Strong immunoreactive bands are detected at approximately 46-53 kDa in human and rabbit lung lysates, consistent with the expected molecular weight range of Keratin 7. No detectable bands are observed in mouse, rat, hamster, or guinea pig lung lysates under the tested conditions. The rabbit sample exhibits multiple closely migrating bands, while the human sample shows a broader principal band.

Description

Cytokeratin 7 Antibody 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 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.

For additional antibodies targeting this epithelial intermediate filament protein, explore our Cytokeratin 7 Antibodies collection, featuring reagents for studying KRT7 expression, epithelial differentiation, and carcinoma classification.

Application Notes

The stated application concentrations are suggested starting amounts. Optimal dilution of the Cytokeratin 7 Antibody OV-TL12/30 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 OV-TL12/30.

Storage

Store the Cytokeratin 7 Antibody OV-TL12/30 at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

Keratin 7 antibody, CK7 antibody, CK-7 antibody, KRT7 antibody, Cytokeratin-7 antibody, Keratin Type II Cytoskeletal 7 antibody, Type II Cytokeratin 7 antibody, Cytokeratin 7/CK7 antibody, K7 antibody

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