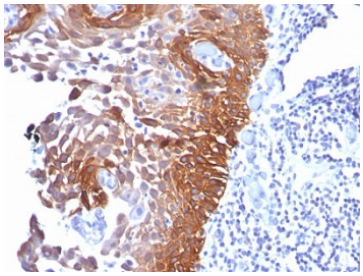
Cytokeratin 17 Antibody [clone E3] (V2176)

Catalog No.	Formulation	Size
V2176-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2176-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2176SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2176IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

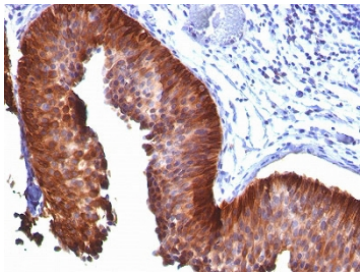
Citations (10)

Bulk quote request

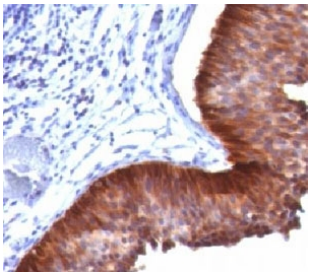
Species Reactivity	Human, Rat
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	E3
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
Gene ID	3872
Localization	Cytoplasmic
Applications	Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This **Cytokeratin 17 antibody** is available for research use only.



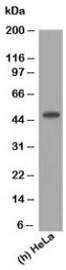
IHC staining of FFPE human cervical carcinoma with Cytokeratin 17 antibody (clone E3).



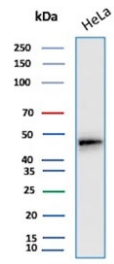
IHC staining of FFPE human bladder carcinoma with Cytokeratin 17 antibody (clone E3).



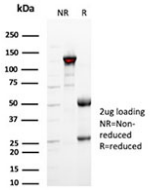
IHC staining of FFPE human bladder carcinoma with Cytokeratin 17 antibody (clone E3).



Western blot testing of human samples using Cytokeratin 17 antibody (clone E3).



Western blot testing of human HeLa cell lysate using Cytokeratin 17 antibody (clone E3).



SDS-PAGE analysis of purified, BSA-free Cytokeratin 17 antibody (clone E3) as confirmation of integrity and purity.

Description

Cytokeratin 17 antibody clone E3 is a monoclonal antibody specific for cytokeratin 17, a type I intermediate filament protein expressed in epithelial cells under conditions of proliferation, repair, or neoplasia. Cytokeratin 17 is normally found in basal epithelial cells of certain tissues, including hair follicles, nail beds, and glandular ducts. It is strongly induced during wound healing and is frequently upregulated in a wide variety of carcinomas. NSJ Bioreagents provides Cytokeratin 17 antibody clone E3 to support research into epithelial regeneration, cancer biology, and diagnostic pathology.

In immunohistochemistry, cytokeratin 17 antibody clone E3 produces cytoplasmic staining in reactive and proliferative epithelial cells. It is often used to distinguish basal-like breast carcinomas and other high-grade tumors, where cytokeratin 17 serves as a marker of aggressive tumor behavior. In cervical pathology, cytokeratin 17 expression is associated with squamous intraepithelial lesions and invasive squamous carcinomas, making clone E3 a helpful diagnostic aid.

In dermatology research, cytokeratin 17 antibody clone E3 highlights keratinocytes involved in wound healing, where cytokeratin 17 supports migration and repair of epithelial surfaces. This makes the antibody valuable in experimental wound models and in studies investigating regenerative therapies. Cytokeratin 17 is also expressed in psoriasis and other hyperproliferative skin disorders, where its detection reflects underlying alterations in keratinocyte biology.

In cancer research, cytokeratin 17 antibody clone E3 has been used to study tumor progression and prognosis. Its overexpression is associated with reduced survival in several epithelial cancers, underscoring its importance as a prognostic biomarker. Researchers employ this antibody to track cytokeratin 17 expression across tumor types, including cervical, lung, pancreatic, and head and neck carcinomas.

Technically, cytokeratin 17 antibody clone E3 has been validated for immunohistochemistry, immunofluorescence, and western blotting. It provides clear, reproducible signals in both paraffin-embedded and frozen tissues. Its extensive publication history demonstrates its reliability across diverse applications. Alternate names include CK17 antibody, keratin 17 antibody, and keratin type I cytoskeletal 17 antibody.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the antibody to be titered up or down for optimal performance.

>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 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

The cytoskeletal fraction of rat colon epithelium was used as the immunogen for this Cytokeratin 17 antibody.

Storage

Store the Cytokeratin 17 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

References (2)