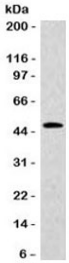
KRT20 Antibody Mouse Monoclonal CTKN20-1 / Cytokeratin 20 Antibody [clone CTKN20-1] (V7290)

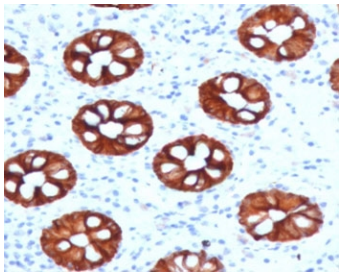
Catalog No.	Formulation	Size
V7290-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7290-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7290SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7290IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human; other species not tested.
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	CTKN20-1
Purity	Protein G affinity chromatography
UniProt	P35900
Localization	Cytoplasmic
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Prediluted IHC Only Format : incubate for 30 min at RT (1)
Limitations	This KRT20 antibody is available for research use only.



KRT20 Antibody Mouse Monoclonal CTKN20-1. Western blot analysis of human HT-29 cell lysate using KRT20 Antibody Mouse Monoclonal CTKN20-1. Lane 1: human HT-29 cell lysate. A band is detected at approximately 46 kDa, consistent with the predicted molecular weight of Keratin 20 / Cytokeratin 20 (KRT20), an epithelial intermediate filament protein commonly expressed in gastrointestinal epithelial cells such as HT-29 colorectal adenocarcinoma cells.



KRT20 Antibody Mouse Monoclonal CTKN20-1. Immunohistochemistry analysis of human colon tissue using mouse monoclonal KRT20 antibody (clone CTKN20-1). HRP-DAB brown chromogenic staining highlights cytoplasmic Keratin 20 / Cytokeratin 20 (KRT20) expression in epithelial cells lining colonic glandular crypt structures, while surrounding stromal cells remain largely negative. The staining pattern reflects the expected epithelial localization of this intermediate filament protein in gastrointestinal mucosa. Required HIER: boil tissue sections in 10 mM citrate buffer, pH 6, for 10-20 min followed by cooling at RT for 20 min.

Description

Keratin 20 (KRT20) is a type I acidic cytokeratin that belongs to the epithelial intermediate filament protein family responsible for maintaining cytoskeletal stability and structural organization in epithelial cells. KRT20 Antibody Mouse Monoclonal CTKN20-1 recognizes Keratin 20 and enables detection of this epithelial cytoskeletal protein in research studies examining epithelial differentiation, epithelial cell identity, and cytoskeletal organization. Keratin 20 is localized primarily within the cytoplasm of epithelial cells where it forms intermediate filament networks that provide mechanical support and help maintain epithelial tissue architecture.

Keratin 20 is encoded by the KRT20 gene located on chromosome 17q21 within a genomic cluster containing multiple keratin genes involved in epithelial cytoskeletal organization. The protein is widely known in the literature as Cytokeratin 20 or CK20, two commonly used synonyms in epithelial biology and cancer research. Keratin 20 forms heterodimers with type II keratins such as keratin 8, and these dimers polymerize to generate intermediate filament networks that extend throughout the cytoplasm of epithelial cells. These filament structures support epithelial cell stability and contribute to the mechanical resilience of tissues exposed to continuous mechanical stress.

Keratin 20 expression is strongly associated with differentiated epithelial cell populations. High expression levels are observed in intestinal epithelial cells, gastric mucosa, and urothelial umbrella cells. Because of this restricted distribution pattern, Cytokeratin 20 antibody reagents are frequently used as markers for epithelial lineage identification. Detection of KRT20 protein therefore supports studies examining epithelial differentiation, epithelial organization, and epithelial tissue development.

In cancer biology, Keratin 20 expression is frequently retained in tumors originating from gastrointestinal and urothelial epithelia. CK20 expression is commonly detected in colorectal carcinoma, gastric carcinoma, pancreatic carcinoma, and bladder carcinoma, where it serves as a marker of epithelial differentiation. Detection of Cytokeratin 20 assists research examining epithelial tumor biology, cytoskeletal organization, and differentiation states within tumor cells.

The mouse monoclonal antibody clone CTKN20-1 targets Keratin 20 and can be used to detect KRT20 protein in research applications examining epithelial cytoskeletal proteins. Detection of Cytokeratin 20 supports studies investigating epithelial differentiation pathways, epithelial tissue organization, and epithelial tumor biology.

Application Notes

The stated application concentrations are suggested starting points. Titration of the KRT20 Antibody Mouse Monoclonal CTKN20-1 may be required due to differences in protocols and secondary/substrate sensitivity.

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.

Immunogen

A portion of amino acids 196-323 from the human protein was used as the immunogen for this KRT20 antibody.

Storage

Store the KRT20 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

Cytokeratin 20 antibody, CK20 antibody, Keratin 20 antibody, Cytokeratin-20 antibody, Keratin 20 protein antibody