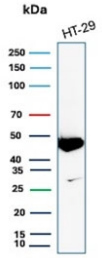
Cytokeratin 20 Antibody for WB / KRT20 Western Blot Antibody [clone KRT20/7805R] (V4493)

Catalog No.	Formulation	Size
V4493-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4493-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4493SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

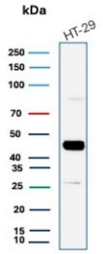
Recombinant RABBIT MONOCLONAL

Bulk quote request

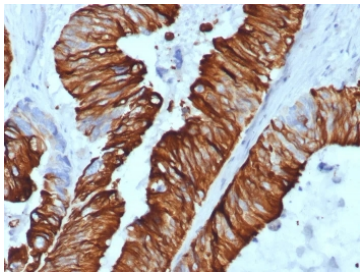
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	KRT20/7805R
Purity	Protein A/G affinity
UniProt	P35900
Localization	Cytoplasm
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 minutes at RT Western blot: 2-4ug/ml
Limitations	This Cytokeratin 20 antibody is available for research use only.



Cytokeratin 20 Antibody for WB. Western blot analysis of human HT-29 cell lysate using Cytokeratin 20 Antibody for WB (clone KRT20/7805R). 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.



Cytokeratin 20 Antibody for WB. Western blot analysis of human HT-29 cell lysate using Cytokeratin 20 Antibody for WB (clone KRT20/7805R). 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 associated with gastrointestinal epithelial cell differentiation.



IHC staining of FFPE human colon carcinoma tissue with Cytokeratin 20 antibody (clone KRT20/7805R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Description

Keratin 20 (KRT20) is a type I acidic cytokeratin that belongs to the intermediate filament family of structural proteins responsible for maintaining epithelial cell integrity and cytoskeletal stability. Keratin 20 is predominantly localized in the cytoplasm of epithelial cells where it participates in intermediate filament networks that provide mechanical strength and structural organization. Cytokeratin 20 Antibody for WB (clone KRT20/7805R) enables detection of KRT20 protein in protein lysates by western blot, allowing researchers to analyze epithelial cytoskeletal protein expression and evaluate KRT20 levels across cell lines and tissue samples.

Keratin 20 is encoded by the KRT20 gene located on chromosome 17q21, a region containing several keratin family genes that are important for epithelial tissue structure. The protein is widely known in the literature as Cytokeratin 20 or CK20, two commonly used names in studies of epithelial biology and tumor marker research. Keratin 20 typically forms heterodimers with type II keratins such as keratin 8, and these heterodimers assemble into intermediate filament polymers that extend throughout the cytoplasm of epithelial cells. Because of its stable cytoskeletal association, KRT20 protein is commonly detected in western blot experiments as a characteristic band corresponding to the Keratin 20 polypeptide present in epithelial-derived samples.

Keratin 20 expression is strongly associated with differentiated epithelial tissues. High levels of KRT20 are observed in intestinal epithelial cells, gastric mucosa, and urothelial umbrella cells, where the protein contributes to epithelial barrier stability and cytoskeletal organization. Cytokeratin 20 antibody reagents are therefore widely used in research examining epithelial differentiation and epithelial lineage identity. Western blot detection using Cytokeratin 20 Antibody for WB allows quantitative comparison of KRT20 protein expression in epithelial cell lines, tumor samples, and experimental models studying epithelial development or differentiation.

In cancer biology, Keratin 20 is frequently retained in tumors derived from gastrointestinal and urothelial epithelia. CK20 expression is commonly observed in colorectal carcinoma, gastric carcinoma, pancreatic carcinoma, and bladder carcinoma, where it is used as a marker of epithelial differentiation. Western blot analysis with a Cytokeratin 20 Antibody for WB allows researchers to confirm KRT20 protein expression in tumor cell lysates and investigate changes in cytokeratin expression associated with epithelial transformation or tumor progression.

The recombinant rabbit monoclonal antibody clone KRT20/7805R targets Keratin 20 and can be used for research applications involving detection of KRT20 protein in cellular lysates and tissue extracts. In western blot experiments, Keratin 20 typically appears as a band corresponding to the full length intermediate filament protein, reflecting the presence of Cytokeratin 20 in epithelial derived samples. Detection of this protein supports studies of epithelial cytoskeletal composition, epithelial differentiation pathways, and epithelial tumor biology.

Application Notes

Optimal dilution of the Cytokeratin 20 Antibody for WB should be determined by the researcher.

Immunogen

A recombinant fragment of human KRT20 protein (within amino acids 324-424) was used as the immunogen for the Cytokeratin 20 antibody.

Storage

Aliquot the Cytokeratin 20 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

Keratin 20 antibody, CK20 antibody, KRT20 antibody, Cytokeratin-20 antibody, Keratin 20 protein antibody

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