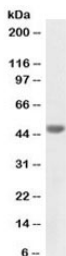


Cytokeratin 20 Antibody Biotin Conjugate / KRT20 Biotinylated Antibody (R34023BTN)

Catalog No.	Formulation	Size
R34023BTN	0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide	100 ug

[Bulk quote request](#)

Availability	1-3 business days
Species Reactivity	Human
Format	Biotin Conjugate
Host	Goat
Clonality	Polyclonal (goat origin)
Isotype	Goat Ig
Purity	Antigen affinity
Gene ID	54474
Applications	Western Blot : 1-3ug/ml Enzyme ImmunoAssay : suitable as a detect ELISA (peptide) LOD : 1:128000
Limitations	This Cytokeratin 20 antibody is available for research use only.



Cytokeratin 20 Antibody Biotin Conjugate for WB. Western blot analysis of human colon lysate using biotinylated Cytokeratin 20 antibody at 1 ug/ml. Lane 1: human colon tissue lysate. A band is detected at approximately 49 kDa, consistent with the predicted molecular weight of Keratin 20 / Cytokeratin 20 (KRT20), an epithelial intermediate filament protein strongly expressed in gastrointestinal epithelial cells.

Description

Keratin 20 (KRT20) is a type I acidic cytokeratin that belongs to the epithelial intermediate filament protein family responsible for maintaining cytoskeletal structure and mechanical stability in epithelial cells. Cytokeratin 20 Antibody Biotin Conjugate recognizes Keratin 20 and enables detection of this epithelial cytoskeletal protein using biotin-based detection systems commonly employed in immunoassays and microscopy workflows. Keratin 20 is primarily localized in

the cytoplasm of epithelial cells where it forms intermediate filament networks that support epithelial architecture and maintain cellular integrity.

Keratin 20 is encoded by the KRT20 gene located on chromosome 17q21 within a genomic region 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 heterodimers polymerize to generate intermediate filament networks distributed throughout the cytoplasm of epithelial cells. These filament structures contribute to epithelial cell stability and help maintain tissue architecture in organs that experience continuous mechanical stress.

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

In cancer research, Keratin 20 expression is frequently retained in tumors derived 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 supports studies examining epithelial tumor biology, cytoskeletal organization, and differentiation states within epithelial tumor cells.

The Cytokeratin 20 Antibody Biotin Conjugate is a goat polyclonal antibody directed against Keratin 20 and is supplied with a biotin label that enables detection through avidin or streptavidin-based systems. Biotinylated antibodies are widely used in assays that employ enzyme-linked or fluorescent streptavidin reagents, providing flexible detection options in microscopy, immunoassays, and other biochemical workflows designed to examine epithelial cytoskeletal proteins.

Application Notes

Optimal dilution of the Cytokeratin 20 antibody should be determined by the researcher.

Immunogen

Amino acids ETNAPRAGRDIS were used as the immunogen for this Cytokeratin 20 antibody.

Storage

Aliquot and store the Cytokeratin 20 antibody at -20°C.

Alternate Names

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