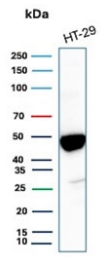
Keratin 20 Antibody for WB / Cytokeratin 20 Western Blot Antibody [clone KRT20/3224R] (V5776)

Catalog No.	Formulation	Size
V5776-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5776-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5776SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

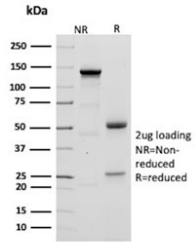
Recombinant RABBIT MONOCLONAL

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	KRT20/3224R
Purity	Protein A affinity
UniProt	P35900
Localization	Cytoplasm
Applications	Western Blot : 2-4ug/ml
Limitations	This Keratin 20 antibody is available for research use only.



Keratin 20 Antibody for WB. Western blot analysis of human HT-29 cell lysate using Keratin 20 Antibody for WB (clone KRT20/3224R). 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 colorectal adenocarcinoma-derived HT-29 cells.



SDS-PAGE analysis of purified, BSA-free Keratin 20 antibody (clone KRT20/3224R) as confirmation of integrity and purity.

Description

Keratin 20 (KRT20) is a type I acidic cytokeratin that belongs to the epithelial intermediate filament family responsible for maintaining cytoskeletal stability and structural integrity in epithelial cells. Keratin 20 Antibody for WB (clone KRT20/3224R) enables detection of Cytokeratin 20 protein in cellular lysates by western blot, allowing researchers to analyze epithelial cytoskeletal protein expression and confirm the presence of KRT20 in epithelial-derived samples. Western blot analysis of Keratin 20 provides a reliable method for evaluating epithelial lineage markers and examining changes in cytokeratin expression associated with epithelial differentiation or tumor biology.

Keratin 20 is encoded by the KRT20 gene located on chromosome 17q21, within a genomic cluster that contains several keratin genes involved in epithelial cytoskeletal organization. The protein is commonly referred to in the literature as Cytokeratin 20 or CK20, both widely used synonyms in studies of 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 that extend throughout the cytoplasm. Western blot detection using a Keratin 20 Antibody for WB allows researchers to identify the KRT20 polypeptide in lysates from epithelial tissues or cultured cells, providing confirmation of epithelial cytoskeletal protein expression.

In normal tissues, Keratin 20 expression is largely restricted to differentiated epithelial cell populations, particularly intestinal epithelial cells, gastric mucosa, and urothelial umbrella cells. Because of this restricted distribution, CK20 is frequently used as a biochemical marker for epithelial differentiation in molecular studies. Western blot experiments using a Keratin 20 Antibody for WB enable investigators to compare KRT20 expression across different epithelial cell lines and tissue samples, making it possible to evaluate epithelial lineage markers in experimental models or cultured cell systems.

Keratin 20 also has important relevance in cancer research because its expression pattern is frequently retained in tumors originating from gastrointestinal and urothelial epithelia. Cytokeratin 20 expression is commonly observed in colorectal carcinoma, gastric carcinoma, pancreatic carcinoma, and bladder carcinoma. Western blot detection of Keratin 20 using a Keratin 20 Antibody for WB allows confirmation of KRT20 protein expression in tumor cell lysates and supports research examining epithelial differentiation status, cytoskeletal organization, and tumor progression mechanisms.

The recombinant rabbit monoclonal antibody clone KRT20/3224R targets Keratin 20 and can be used to detect KRT20 protein in cell lysates and tissue extracts by western blot. In western blot experiments, Keratin 20 typically appears as a band corresponding to the intermediate filament protein present in epithelial cells. Detection of Cytokeratin 20 by western blot provides a useful approach for confirming epithelial origin of samples, monitoring cytokeratin expression levels, and studying epithelial cytoskeletal proteins in biochemical analyses.

Application Notes

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

Immunogen

A recombinant partial protein from human KRT20 protein (within amino acids 196-323) was used as the immunogen for the Keratin 20 antibody for WB.

Storage

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

Alternate Names

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