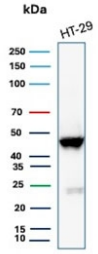
Cytokeratin 20 Antibody Recombinant Mouse MAb rKRT20/6536 / KRT20 Antibody [clone rKRT20/6536] (V8934)

Catalog No.	Formulation	Size
V8934-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V8934-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V8934SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

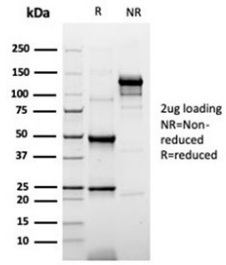
Recombinant | MOUSE MONOCLONAL

Bulk quote request

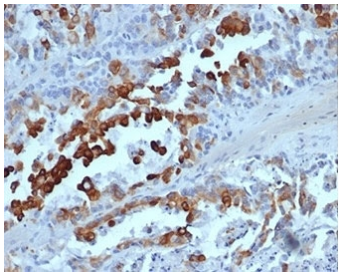
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG2a, kappa
Clone Name	rKRT20/6536
Purity	Protein A/G affinity
UniProt	P35900
Localization	Cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml Western Blot : 2-4ug/ml
Limitations	This Cytokeratin 20 antibody is available for research use only.



Cytokeratin 20 Antibody Recombinant Mouse MAb rKRT20/6536. Western blot analysis of human HT-29 cell lysate using Cytokeratin 20 Antibody Recombinant Mouse MAb rKRT20/6536. 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.



SDS-PAGE analysis of purified, BSA-free recombinant Cytokeratin 20 antibody (clone rKRT20/6536) as confirmation of integrity and purity.



Cytokeratin 20 Antibody Recombinant Mouse MAb rKRT20/6536. Immunohistochemistry analysis of FFPE human colon adenocarcinoma tissue using recombinant mouse monoclonal Cytokeratin 20 antibody (clone rKRT20/6536). HRP-DAB brown chromogenic staining highlights cytoplasmic Keratin 20 / Cytokeratin 20 (KRT20) expression in malignant epithelial cells forming glandular structures, while surrounding stromal cells remain largely negative. The staining pattern is consistent with the epithelial localization of this intermediate filament protein in colorectal adenocarcinoma. HIER: boil tissue sections in pH 9 10 mM Tris with 1 mM EDTA for 20 min and allow to cool before testing.

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 organization in epithelial cells. Cytokeratin 20 Antibody Recombinant Mouse MAb rKRT20/6536 recognizes Keratin 20 and enables detection of this epithelial cytoskeletal protein in research studies investigating epithelial cell identity, epithelial differentiation, and cytoskeletal organization. Keratin 20 is localized primarily in the cytoplasm of epithelial cells where it forms intermediate filament networks that support epithelial architecture and maintain cellular mechanical stability.

Keratin 20 is encoded by the KRT20 gene located on chromosome 17q21 within a genomic cluster that contains multiple keratin genes involved in epithelial cytoskeletal structure. The protein is widely referred to 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 throughout the cytoplasm of epithelial cells. These filament structures provide structural resilience and help maintain epithelial tissue integrity in organs exposed to 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 distribution pattern, Cytokeratin 20 antibody reagents are frequently used as markers for epithelial lineage identification. Detection of KRT20 protein therefore assists studies examining epithelial differentiation, epithelial tissue organization, and epithelial cell development.

In cancer biology, 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 research examining epithelial tumor biology, cytoskeletal organization, and differentiation states within tumor cells.

The recombinant mouse monoclonal antibody clone rKRT20/6536 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

Optimal dilution of the Cytokeratin 20 Antibody Recombinant Mouse MAb rKRT20/6536 should be determined by the

researcher.

Immunogen

A portion of amino acids 196-323 was used as the immunogen for the recombinant Cytokeratin 20 antibody.

Storage

Aliquot the recombinant 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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