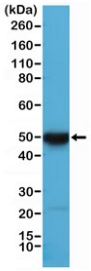
Cytokeratin 17 Antibody for WB / CK17 Western Blot Antibody (KRT17) [clone RM351] (R20373)

Catalog No.	Formulation	Size
R20373-0.1ML	Antibody in PBS with 50% glycerol, 1% BSA and 0.09% sodium azide	100 ul

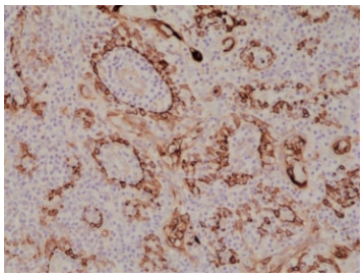
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	RM351
Purity	Protein A purified from animal origin-free supernatant
UniProt	Q04695
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE) : 1:500-1:1000 Western Blot : 1:1000-1:20000
Limitations	This Cytokeratin 17 antibody is available for research use only.



Cytokeratin 17 Antibody for WB (clone RM351) western blot analysis of human HeLa cell lysate. Western blot detection using the recombinant rabbit monoclonal Cytokeratin 17 Antibody for WB (clone RM351) reveals a clear immunoreactive band in human HeLa cell lysate. Lane 1: human HeLa cell lysate. A band is detected at approximately 48 kDa, consistent with the expected molecular weight of Cytokeratin 17 (CK17 / KRT17), an epithelial intermediate filament protein that forms part of the cytoskeletal keratin network in epithelial cells.



IHC staining of FFPE human tonsil tissue with recombinant Cytokeratin 17 antibody at 1:1000.

Description

Cytokeratin 17 (KRT17), also known as CK17 or Keratin 17, is a type I intermediate filament protein encoded by the KRT17 gene and expressed in epithelial cells of stratified and glandular tissues. As part of the cytokeratin intermediate filament network, CK17 contributes to cytoskeletal organization, mechanical stability, and epithelial cell integrity. Cytokeratin 17 Antibody for WB / CK17 Western Blot Antibody (KRT17) is designed for western blot analysis of cytokeratin 17 protein in cell and tissue lysates, enabling detection and characterization of CK17 expression by immunoblotting.

Western blot analysis is a widely used method for evaluating protein expression following separation by SDS-PAGE and transfer to a membrane. Cytokeratin 17 Antibody for WB (clone RM351) allows specific detection of the CK17 intermediate filament protein within complex protein mixtures. When analyzed by western blot, cytokeratin 17 typically appears as a distinct band corresponding to the expected molecular weight of the CK17 protein, enabling researchers to confirm protein identity and examine expression levels in epithelial cell samples.

CK17 is normally expressed in epithelial cells associated with stratified epithelia and epithelial appendages such as hair follicles and certain glandular structures. Western blot detection of CK17 is therefore frequently performed using lysates from epithelial cell lines or tissues where cytokeratin networks are present. Immunoblot analysis allows investigators to compare CK17 expression across different epithelial cell types and experimental conditions.

Western blotting is particularly useful for analyzing intermediate filament proteins such as cytokeratins because it enables clear separation of cytoskeletal proteins by molecular weight. Cytokeratin 17 Antibody for WB allows detection of CK17 following SDS-PAGE separation of cellular proteins, producing a defined immunoreactive band corresponding to the cytokeratin 17 protein. This approach allows verification of CK17 expression and provides a reliable method for examining epithelial cytoskeletal protein profiles.

Western blot analysis of cytokeratin proteins is also used in studies investigating epithelial differentiation, cytoskeletal remodeling, and epithelial tumor biology. CK17 expression patterns can be evaluated across experimental conditions, allowing researchers to monitor changes in epithelial intermediate filament composition in response to biological stimuli or disease-associated processes.

Cytokeratin 17 Antibody for WB (clone RM351) is a recombinant rabbit monoclonal antibody developed for western blot applications targeting cytokeratin 17 protein. Detection of CK17 using this antibody supports studies examining epithelial cytoskeletal organization, epithelial cell differentiation, and molecular analysis of cytokeratin expression by immunoblotting.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Cytokeratin 17 Antibody for WB may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A peptide corresponding to residues in human Cytokeratin 17 (CK-17) was used as the immunogen for the recombinant Cytokeratin 17 antibody.

Storage

Store the Cytokeratin 17 antibody at -20oC.

Alternate Names

Cytokeratin 17 antibody, CK17 antibody, Keratin 17 antibody, KRT17 antibody