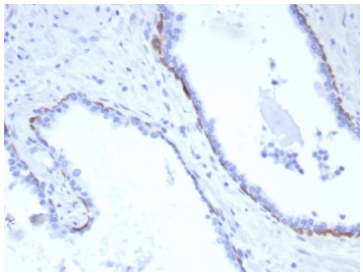
Cytokeratin 17 Antibody Recombinant Rabbit MAb KRT17/8320R / Keratin 17 Antibody [clone KRT17/8320R] (V4490)

Catalog No.	Formulation	Size
V4490-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4490-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4490SAF-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	KRT17/8320R
Purity	Protein A/G affinity
UniProt	Q04695
Localization	Cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT
Limitations	This recombinant Cytokeratin 17 antibody is available for research use only.



Cytokeratin 17 Antibody Recombinant Rabbit MAb KRT17/8320R immunohistochemistry analysis of human prostate carcinoma tissue. Immunohistochemistry of FFPE human prostate carcinoma demonstrates cytoplasmic brown chromogenic staining in epithelial tumor cells using the recombinant rabbit monoclonal Cytokeratin 17 antibody KRT17/8320R. The staining pattern highlights malignant epithelial cells consistent with the known expression profile of Cytokeratin 17 (CK17 / KRT17), an epithelial intermediate filament protein associated with basal-type epithelial differentiation and frequently evaluated in epithelial tumor studies. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 minutes followed by cooling prior to antibody incubation.

Description

Cytokeratin 17 (KRT17), also known as Keratin 17 or CK17, is a type I intermediate filament protein encoded by the KRT17 gene and expressed in epithelial tissues. Cytokeratin 17 forms part of the keratin cytoskeletal network that supports epithelial cell structure, mechanical stability, and intracellular organization. Cytokeratin 17 Antibody Recombinant Rabbit MAb KRT17/8320R recognizes the KRT17 protein and is useful for research focused on epithelial biology, keratin filament organization, and epithelial tumor characterization.

Cytokeratins belong to a large family of intermediate filament proteins that form heteropolymeric filaments within epithelial cells. These filaments are composed of type I and type II keratin pairs that assemble into stable cytoskeletal structures that maintain cell shape and structural integrity. Cytokeratin 17 frequently pairs with type II keratins to form intermediate filament networks that provide resilience to epithelial cells subjected to mechanical stress.

Cytokeratin 17 is commonly expressed in basal epithelial compartments and in epithelial appendages such as hair follicles and glandular structures. Expression of KRT17 has been observed in epithelial cells involved in tissue regeneration and cellular proliferation. Because cytokeratin expression patterns vary between epithelial cell types, keratin profiling has become an important method for characterizing epithelial differentiation states and identifying tissue origin in biological studies.

KRT17 expression has also been widely investigated in cancer research. Cytokeratin 17 is frequently detected in a variety of epithelial tumors and can serve as a marker associated with epithelial lineage and tumor differentiation. The presence of CK17 protein is commonly evaluated in studies examining tumor biology, epithelial transformation, and cytoskeletal remodeling within malignant cells.

Intermediate filaments composed of keratin proteins form one of the three principal components of the cytoskeleton, alongside actin filaments and microtubules. These keratin filaments provide tensile strength to epithelial tissues and help organize intracellular structures. Cytokeratin 17 contributes to this framework by supporting epithelial cell resilience and maintaining tissue architecture.

Cytokeratin 17 Antibody Recombinant Rabbit MAb KRT17/8320R is a recombinant rabbit monoclonal antibody designed to detect KRT17 protein in research samples. Detection of Cytokeratin 17 using this antibody supports studies examining epithelial cytoskeletal structure, epithelial differentiation, and keratin expression patterns in normal and disease-associated tissues.

Application Notes

Optimal dilution of the Cytokeratin 17 Antibody Recombinant Rabbit MAb KRT17/8320R should be determined by the researcher.

Immunogen

A recombinant fragment of the human protein was used as the immunogen for the recombinant Cytokeratin 17 antibody.

Storage

Aliquot the Cytokeratin 17 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

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