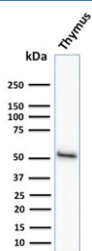


Keratin 15 Antibody / Cytokeratin 15 [clone KRT15/2958] (V7920)

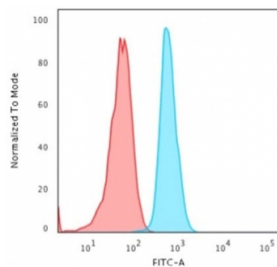
Catalog No.	Formulation	Size
V7920-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7920-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7920SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

[Bulk quote request](#)

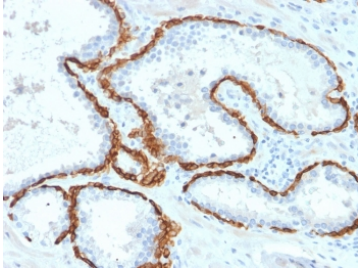
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	KRT15/2958
Purity	Protein G affinity chromatography
UniProt	P19012
Localization	Cytoplasmic
Applications	Flow Cytometry : 1-2ug/million cells Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This Keratin 15 antibody is available for research use only.



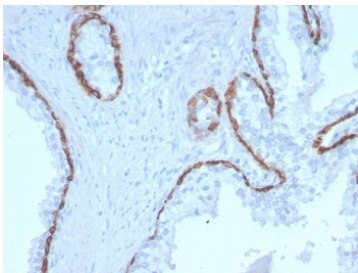
Western blot testing of human thymus tissue lysate with Keratin 15 antibody (clone KRT15/2958). Expected molecular weight ~50 kDa.



Flow cytometry testing of PFA-fixed human HeLa cells with Keratin 15 antibody (clone KRT15/2958); Red=isotype control, Blue= Keratin 15 antibody.



IHC staining of FFPE human prostate carcinoma with Keratin 15 antibody (clone KRT15/2958). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.



IHC staining of FFPE human prostate carcinoma with Keratin 15 antibody (clone KRT15/2958). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.

Human Protein Microarray Specificity Validation



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Keratin 15 antibody (clone KRT15/2958). These results demonstrate the foremost specificity of the KRT15/2958 mAb.

Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

Description

Keratin 15 Antibody recognizes Cytokeratin 15, also known as Keratin 15 (KRT15), a type I intermediate filament protein that is characteristically expressed in basal epithelial cells and progenitor-associated compartments within stratified squamous epithelia. Cytokeratin 15 is a cytoplasmic structural protein that contributes to the intermediate filament cytoskeleton, supporting epithelial cell integrity, mechanical stability, and tissue organization. Keratin 15 Antibody is commonly used in research and pathology contexts and is frequently referred to in the literature as Cytokeratin 15 antibody or CK15 antibody.

Cytokeratin 15 expression is most prominent in basal keratinocytes of the epidermis and in specialized epithelial niches involved in tissue maintenance and regeneration. In skin, CK15 is enriched in basal epithelial cells and hair follicle-associated compartments, reflecting its association with epithelial stem and progenitor cell populations. In stratified squamous epithelia, KRT15 expression is typically restricted to basal layers and is downregulated as cells undergo terminal differentiation and migrate toward suprabasal compartments expressing keratins such as Cytokeratin 10 or Cytokeratin 13. This restricted expression pattern makes Keratin 15 Antibody useful for distinguishing basal and progenitor-associated epithelial cells from more differentiated squamous populations.

Altered Cytokeratin 15 expression has been reported in a variety of pathological contexts. Changes in CK15 distribution or intensity have been observed in epithelial hyperplasia, dysplasia, and squamous cell carcinoma, where disruption of basal cell compartments and differentiation programs is a defining feature of disease progression. As a result, Cytokeratin 15 antibody staining patterns are frequently evaluated in research studies focused on epithelial stem cell biology, basal cell dynamics, and squamous lineage differentiation.

At the cellular level, Cytokeratin 15 contributes to the organization of the intermediate filament network and supports basal epithelial cell architecture. Its association with basal and progenitor cell compartments makes Keratin 15 Antibody a valuable tool for studies of epithelial stratification, tissue homeostasis, and regeneration. The Keratin 15 Antibody (clone KRT15/2958) is designed to detect Cytokeratin 15 expression in research applications where identification of basal epithelial or progenitor cell populations is required.

Application Notes

Optimal dilution of the Keratin 15 antibody should be determined by the researcher.

Immunogen

Recombinant human KRT15 protein was used as the immunogen for the CK15 antibody.

Storage

Store the Keratin 15 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).