abcam

**ab268078**

# Anti-Cytokeratin 15 antibody [KRT15/2958]

## Key facts

| | |
|---|---|
| **Isotype** | IgG2b |
| **Host species** | Mouse |
| **Storage buffer** | pH: 7.2 - 7.4 Preservative: 0.05% Sodium azide Constituents: PBS, 0.05% BSA |
| **Form** | Liquid |
| **Clonality** | Monoclonal |
| **Immunogen** | Recombinant Full Length Protein corresponding to Human KRT15. Database link P19012 |
| **Clone number** | KRT15/2958 |
| **Purification technique** | Affinity purification Protein A/G |
| **Light chain type** | kappa |
| **Concentration** | 0.2 mg/mL The concentration of this product may be batch-dependent Batch concentration finder → |
| **Purification notes** | Purified from Bioreactor concentrate |

## Reactivity data

## Flow Cyt

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1-2 µg for $10^6$ Cells |

| | |
|---|---|
| **Notes** | - |

### Not recommended

| | |
|---|---|
| **Species** | Recombinant full length protein - Human |
| **Dilution info** | - |
| **Notes** | - |

## WB

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1-2 µg/mL |
| **Notes** | - |

### Not recommended

| | |
|---|---|
| **Species** | Recombinant full length protein - Human |
| **Dilution info** | - |
| **Notes** | - |

## Protein Array

### Tested

| | |
|---|---|
| **Species** | Recombinant full length protein - Human |
| **Dilution info** | - |
| **Notes** | - |

### Expected

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

## IHC-P

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1-2 µg/mL |
| **Notes** | - |

### Not recommended

| | |
|---|---|
| **Species** | Recombinant full length protein - Human |
| **Dilution info** | - |
| **Notes** | - |

## Target data

See full target information KRT15

## Storage

| | |
|---|---|
| **Shipped at conditions** | Blue Ice |
| **Appropriate short-term storage duration** | 1-2 weeks |
| **Appropriate short-term storage conditions** | +4°C |
| **Appropriate long-term storage conditions** | -20°C |
| **Aliquoting information** | Upon delivery aliquot |
| **Storage information** | Avoid freeze / thaw cycle |

## Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

| | |
|---|---|
| **Activity summary** | Cytokeratin 15 often abbreviated as CK15 bsa-15 or keratin 15 is an intermediate filament protein known for its role in the structural integrity of epithelial cells. It weighs approximately 50 kilodaltons. This protein is mainly expressed in the basal layer of stratified squamous epithelia such as the epidermis and the hair follicle. |

| | |
|---|---|
| | CK15 is an essential part of the cytoskeleton contributing to cell shape and mechanical resilience. |
| **Biological function summary** | CK15 plays a significant role in maintaining epithelial stem cell populations. It is part of the keratin protein family where it forms a complex network with other cytokeratins to support epithelial cell stability. CK15 has been shown to mark epithelial progenitor cells hinting at its role in tissue regeneration and repair. Its expression levels often reflect the cellular origin and differentiation state particularly in the skin and associated structures. |
| **Pathways** | CK15 is involved in pathways related to epithelial cell differentiation and homeostasis. It interacts within the cytoskeletal network alongside other cytokeratins like keratin 5. CK15 contributes to pathways that regulate cell proliferation and differentiation. It participates in the wound healing process where keratin 6 and keratin 17 also play important roles. This involvement allows it to impact how epithelial cells respond to and repair after damage. |
| **Associated diseases and disorders** | CK15 has been associated with skin disorders and certain types of cancers. Its expression is often altered in squamous cell carcinoma and basal cell carcinoma where abnormal CK15 levels can influence tumor behavior. Additionally changes in CK15 expression are linked to alopecia relating it to proteins like keratin 5 and keratin 8 which have similar expression patterns in hair follicles. Understanding CK15's role may aid in developing biomarkers for diagnosis and therapeutic targets. |

## Product promise

**Tested**

We have tested this species and application combination and it works. It is covered by our product promise.

**Expected**

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

**Predicted**

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

**Not recommended**

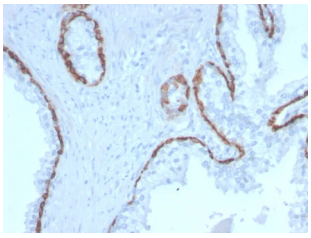
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:

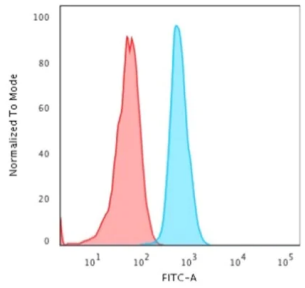
## 5 product images



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 15 antibody [KRT15/2958] (ab268078)

Cytokeratin 15 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using mouse Anti-Cytokeratin 15 antibody

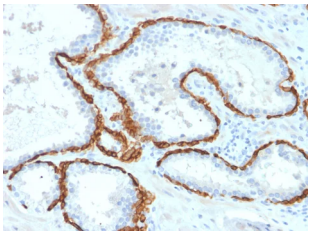
Formalin-fixed, paraffin-embedded human prostate carcinoma tissue stained for Cytokeratin 15 using ab268078 at 2 µg/ml in immunohistochemical analysis.




### Flow Cytometry - Anti-Cytokeratin 15 antibody [KRT15/2958] (ab268078)

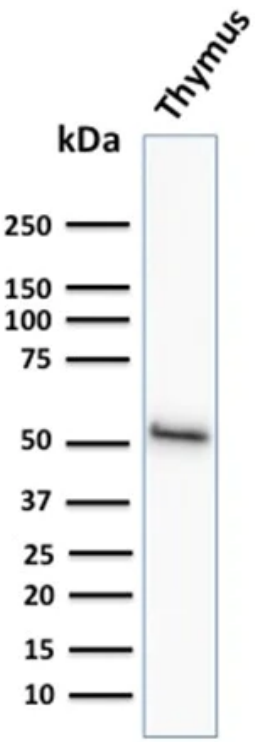
Cytokeratin 15 Flow Cytometry staining using mouse Anti-Cytokeratin 15 antibody

Flow cytometric analysis of PFA-fixed HeLa cells labeling Cytokeratin 15 using ab268078 at 2 µg/million cells followed by a goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red)



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 15 antibody [KRT15/2958] (ab268078)

Formalin-fixed, paraffin-embedded human prostate carcinoma tissue stained for Cytokeratin 15 using ab268078 at 2 µg/ml in immunohistochemical analysis.

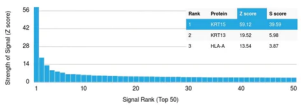



## Western blot - Anti-Cytokeratin 15 antibody [KRT15/2958] (ab268078)

All lanes:
Western blot - Anti-Cytokeratin 15 antibody [KRT15/2958] (ab268078) at 2 µg/mL

All lanes:
Human thymus lysate

Predicted band size: 49 kDa



## Protein Array - Anti-Cytokeratin 15 antibody [KRT15/2958] (ab268078)

Protein Array containing more than 19,000 full-length human proteins using ab268078. Z- and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.

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