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Datasheet for ABIN6939863  
**anti-KRT4 antibody (AA 181-292)**

4 Images

### Overview

Quantity:	100 µg
Target:	KRT4
Binding Specificity:	AA 181-292
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This KRT4 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunofluorescence (IF), Staining Methods (StM)

### Product Details

Immunogen:	Recombinant fragment (around aa 181-292) of human KRT4 protein (exact sequence is proprietary)
Clone:	KRT4-2804
Isotype:	IgG1 kappa
Purification:	Purified by Protein A/G

### Target Details

Target:	KRT4
Alternative Name:	KRT4 ( <a href="#">KRT4 Products</a> )

## Target Details

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**Background:** Cytokeratin 4 (KRT4) is an intermediate filament protein associated with Cytokeratin 13 (KRT13). It is expressed in suprabasal cells of non-keratinized stratified squamous epithelium of esophagus, cornea, anus, larynx, pharynx and tongue. Decreased expression of KRT4 is associated with head and neck squamous carcinoma. It is helpful in differentiation of squamous cell carcinoma of esophagus origin from that of thyroid origin.

**Molecular Weight:** 67kDa

**Gene ID:** 3851

**UniProt:** [P19013](#)

## Application Details

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**Application Notes:** Positive Control: HeLa, A549 or A431 cells. Skin, Cervix or Esophagus.  
Known Application: Flow Cytometry (1-2 µg/million cells), Immunofluorescence (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 min at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

**Restrictions:** For Research Use only

## Handling

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**Concentration:** 200 µg/mL

**Buffer:** 10 mM PBS with 0.05 % BSA & 0.05 % azide.

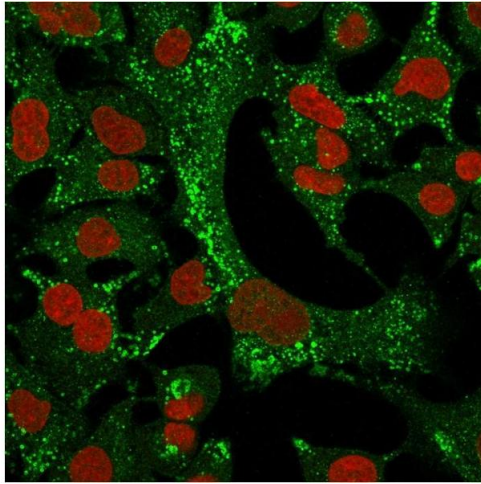
**Preservative:** Sodium azide

**Precaution of Use:** This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

**Storage:** 4 °C,-80 °C

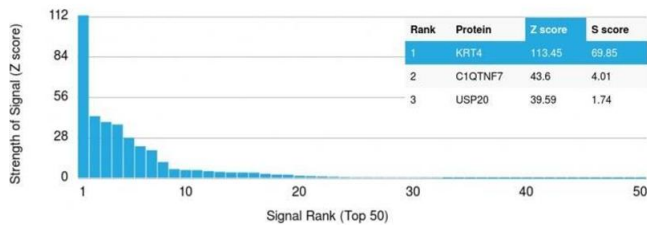
**Storage Comment:** Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

**Expiry Date:** 24 months



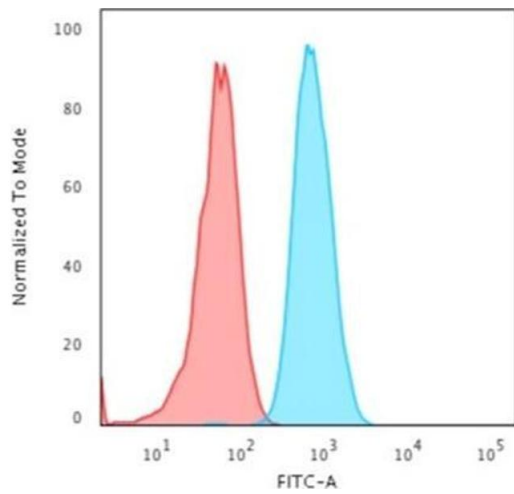
### Immunofluorescence

**Image 1.** Immunofluorescence Analysis of A549 cells labeling KRT4 with Cytokeratin 4 Mouse Monoclonal Antibody (KRT4/2804) followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Reddot (Red).



### Protein Array

**Image 2.** Analysis of Protein Array containing more than 19,000 full-length human proteins using Cytokeratin 4 Mouse Monoclonal Antibody (KRT4/2804). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (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 MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb 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 MAb to protein X is equal to 29.



### Flow Cytometry

**Image 3.** Flow Cytometric Analysis of HeLa cells using Cytokeratin 4 Mouse Monoclonal Antibody (KRT4/2804) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6939863.