



## Cytokeratin 15 (Esophageal Squamous Cell Carcinoma Marker) Antibody

Mouse Monoclonal Antibody [Clone KRT15/2554]

| Catalog No      | Format  | Size   |
|-----------------|---|--------|
| 3866-MSM4-P0    | Purified Ab with BSA and Azide at 200ug/ml    | 20 ug  |
| 3866-MSM4-P1    | Purified Ab with BSA and Azide at 200ug/ml    | 100 ug |
| 3866-MSM4-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

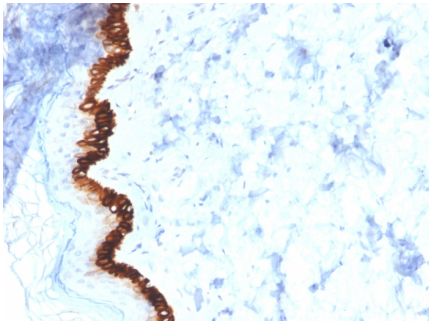
| Applications               | Tested Dillution    | Note  |
|----------------------------|---------------------|---|
| Flow Cytometry (Flow)      | 1-2ug/million cells |   |
| Immunohistochemistry (IHC) | 1-2ug/ml            | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |

### Product Details

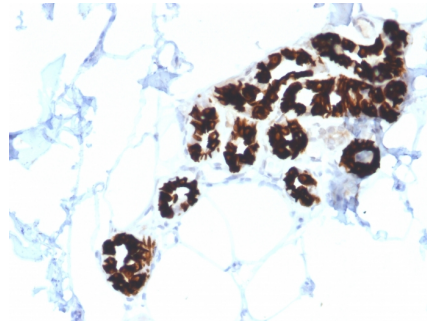
|                               |   |
|-------------------------------|---|
| <b>Clone</b>                  | KRT15/2554                                  |
| <b>Gene Name</b>              | KRT15                                       |
| <b>Immunogen</b>              | Recombinant full-length human KRT15 protein |
| <b>Host</b>                   | Mouse                                       |
| <b>Clonality</b>              | Monoclonal                                  |
| <b>Isotype / Light Chain</b>  | IgG2b / Kappa                               |
| <b>Mol. Weight of Antigen</b> | 52kDa                                       |
| <b>Species Reactivity</b>     | Human                                       |
| <b>Positive Control</b>       | A431 cells. Skin, Colon or Prostate., HeLa  |

*\*Optimal dilution for a specific application should be determined.*

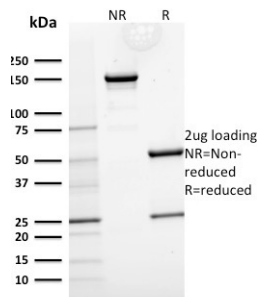
### Product Images for Cytokeratin 15 (Esophageal Squamous Cell Carcinoma Marker) Antibody



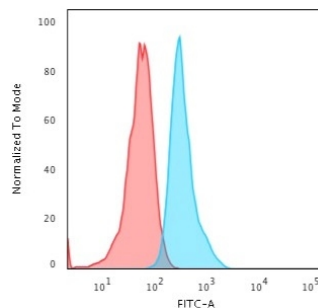
Formalin-fixed, paraffin-embedded human Basal Cell Carcinoma stained with Cytokeratin 15 Mouse Monoclonal Antibody (KRT15/2554).



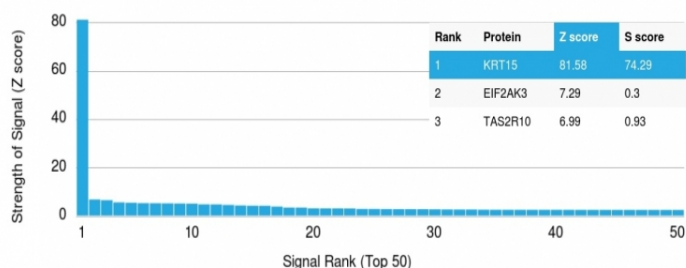
Formalin-fixed, paraffin-embedded human Basal Cell Carcinoma stained with Cytokeratin 15 Mouse Monoclonal Antibody (KRT15/2554).



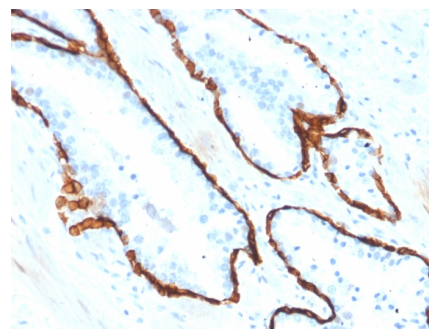
SDS-PAGE Analysis Purified Cytokeratin 15 Mouse Monoclonal Antibody (KRT15/2554). Confirmation of Purity and Integrity.



Flow Cytometric Analysis of PFA-fixed HeLa cells. Cytokeratin 15 Mouse Monoclonal Antibody (KRT15/2554) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



Analysis of Protein Array containing more than 19,000 full-length human proteins using Cytokeratin 15 Mouse Monoclonal Antibody (KRT15/2554). 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 be 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.



Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with Cytokeratin 15 Mouse Monoclonal Antibody (KRT15/2554).

### Specificity & Comments

Keratin 15 is a type I keratin which is expressed only in basal keratinocytes in stratified epithelia and does not appear to have a natural type II expression partner. Keratin 15 is down regulated in activated keratinocytes. Cytokeratin 15 is a specific marker of stem cells of the hair-follicle bulge and may be a useful marker for diagnosis between basal cell carcinoma (BCC) and trichoepithelioma. Trichoblastoma are benign neoplasms of follicular differentiation frequently found in nevus sebaceous. Many morphologic features are shared with nodular basal cell carcinoma, sometimes rendering a diagnosis difficult. Trichoblastoma and BCC show variable expression of Cytokeratin 15 and Cytokeratin 19, and absence of hair keratins.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

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.

### Research Areas

Autophagy, Basal Cell Marker, Developmental Biology