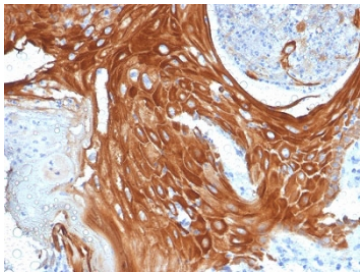
# Cytokeratin 6 Antibody [clone KRT6A/2368] (V3850)

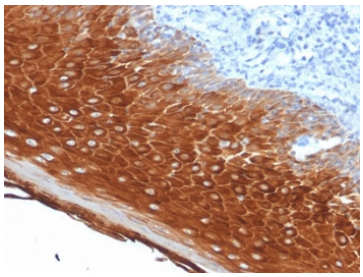
| Catalog No. | Formulation | Size |
|---|---|---|
| V3850-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V3850-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V3850SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

**Bulk quote request**

| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG2a, kappa |
| **Clone Name** | KRT6A/2368 |
| **Purity** | Protein G affinity chromatography |
| **UniProt** | P02538 |
| **Localization** | Cytoplasmic |
| **Applications** | Flow Cytometry : 1-2ug/10^6 cells<br>Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT |
| **Limitations** | This Cytokeratin 6 antibody is available for research use only. |



IHC testing of FFPE human basal cell carcinoma with Cytokeratin 6 antibody (clone KRT6A/2368). Required HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



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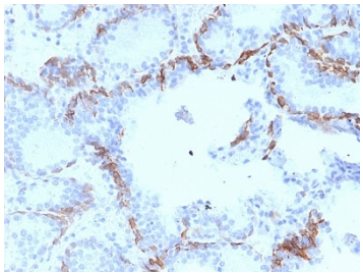
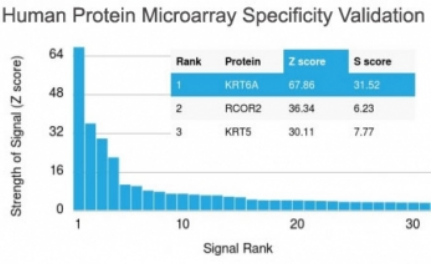
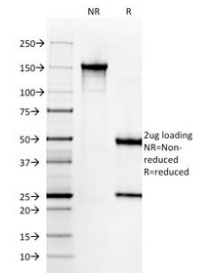


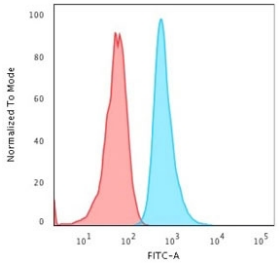
IHC testing of FFPE human prostate cancer with Cytokeratin 6 antibody (clone KRT6A/2368). Required HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.




Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Cytokeratin 6 antibody (clone KRT6A/2368). These results demonstrate the foremost specificity of the KRT6A/2368 mAb.<BR>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.




SDS-PAGE analysis of purified, BSA-free Cytokeratin 6A antibody (clone KRT6A/2368) as confirmation of integrity and purity.




Flow cytometry testing of PFA-fixed human HeLa cells with Cytokeratin 6 antibody (clone KRT6A/2368); Red=isotype control, Blue= Cytokeratin 6 antibody.

## Description

This mAb recognizes a protein of 56kDa, identified as Cytokeratin 6 (CK6). In humans, multiple isoforms of Cytokeratin 6 (6A-6F), encoded by several highly homologous genes, have distinct tissue expression patterns, and Cytokeratin 6A is the dominant form in epithelial tissue. The gene encoding human Cytokeratin 6A maps to chromosome 12q13, and mutations in this gene are linked to several inheritable hair and skin pathologies. Keratins 6 and 16 are expressed in keratinocytes, which are undergoing rapid turnover in the suprabasal region (also known as hyper-proliferation-related keratins). Keratin 6 is found in hair follicles, suprabasal cells of a variety of internal stratified epithelia, in epidermis, in both

normal and hyper-proliferative situations. Epidermal injury results in activation of keratinocytes, which express CK6 and CK16. CK6 is strongly expressed in about 75% of head and neck squamous cell carcinomas. Expression of CK6 is particularly associated with differentiation.

## Application Notes

Optimal dilution of the Cytokeratin 6 antibody should be determined by the researcher.

## Immunogen

Recombinant human KRT6A protein was used as the immunogen for the Cytokeratin 6 antibody.

## Storage

Store the Cytokeratin 6 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).