



## Cat nr AE00149

## Product Datasheet

Mouse Monoclonal Antibody, clone KRT18/836 to:

### KRT18, Cytokeratin 18

Cell proliferation-inducing gene 46 protein; Cytokeratin 18; Cytokeratin-18; Keratin 18; Keratin-18; Keratin, type I cytoskeletal 18; CK-18; CYK18; K18

Cellular localization Intermediate filament, cytoskeleton

Official Symbol (Gene) KRT18  
 GenelD 3875  
 SwissProt P05783

Confirmed Applications ICC, IHC, PA  
 Positive controls MCF-7, HeLa, A431, Breast Cancer

Aeonian Rating© 80

Purification By Protein G from bioreactor concentrate  
 Formulation  200ug IgG/ml in PBS, 0.05% BSA, 0.05% azide (20ug or 100ug)  
 1mg IgG/ml in PBS (100ug or contact us for quotation)  
 Amount  20ug  100ug  
 Isotype Mouse IgG1  
 Confirmed species reactivity Human  
 Immunogen Recombinant full-length human KRT18 protein

Epitope Unknown

Storage instructions Avoid repeated freeze/thaw cycles. For long term storage, keep small aliquots at -20C or -80C and keep one aliquot at 4C for daily experimentations. Azide will preserve antibody at 4C for 6-12 months, when kept away from direct sun light.

Expiration Integrity warranted for 24 months after purchase when handled and stored according to instructions, see below.

Warranty This product is only warranted for the specifications as described in this product sheet and only when the product is handled and stored according to instructions. User should validate this antibody in the application and tissue/cell type as required, after confirmation of integrity upon receipt is obtained by reproducing the performance as described below. Should such confirmation not be attempted, any warranty is void. In case of non-conformance, user needs to contact us immediately for replacement or refund.

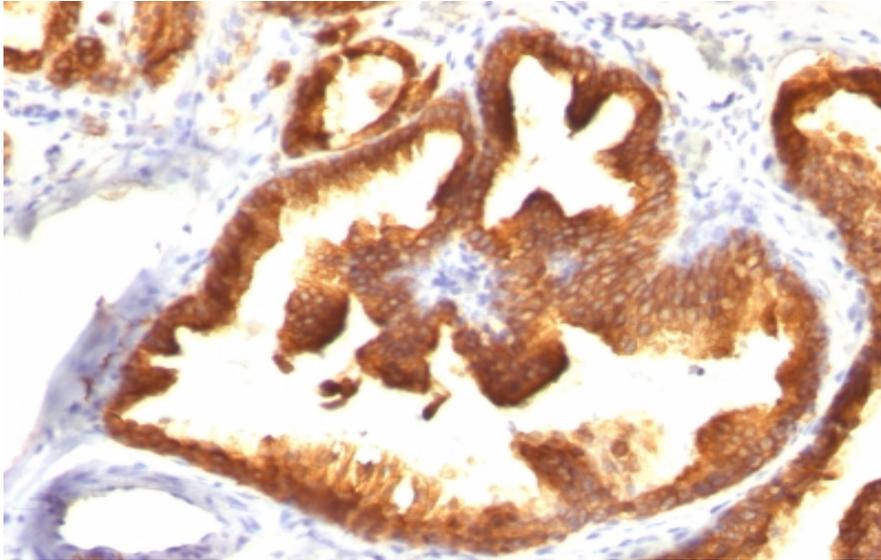
Liability This product is for in vitro research use only. Any other applications, such as diagnostics or therapeutics, or in vivo experiments, and the validation of this product therein, are solely at the responsibility of the buyer/user.

Product performance see next pages

**Product data:**

**ImmunoHistoChemistry (IHC):**

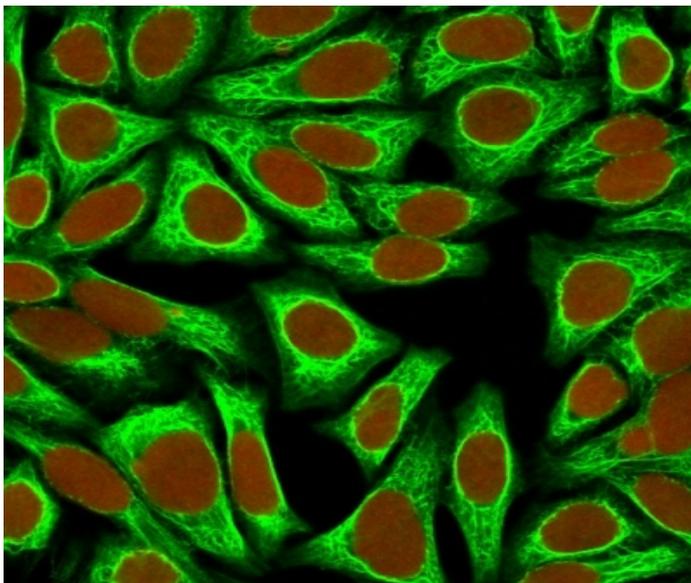
This product shows staining (malignant) epithelial cells in human prostate carcinoma sections.  
Recommended concentration: 1-3ug/ml



Formaldehyde-fixed, paraffin-embedded human prostate carcinoma stained with KRT18 Mouse Monoclonal Antibody AE00149 at 1-2ug/ml for 30 minutes at RT. Epitope retrieval: Boiling at pH6 for 10-20 min followed by 20 min cooling. DAB staining by HRP polymer.

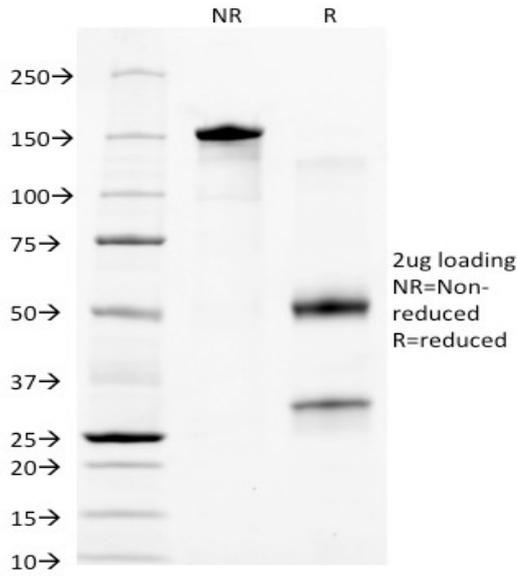
**Immunocytochemistry (ICC):**

This product was successfully used to stain cytoskeletal structures in cell line HeLa. Recommended concentration: 1-3ug/ml



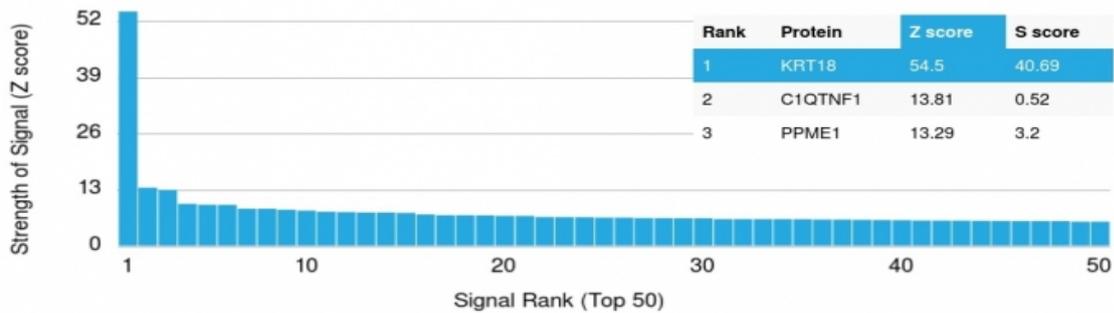
Confocal microscopy of cell line HeLa stained with KRT18 Mouse Monoclonal Antibody AE00149 at 1ug/ml (1h at ambient temp). CF488 (green) staining of the antibody and RedDot (red) for nuclear staining.

SDS-PAGE Analysis of Purified KRT18 Mouse Monoclonal Antibody AE00149. Confirmation of Purity and Integrity of Antibody.



Integrity of the purified antibody AE00149 under non-reduced and reduced conditions, showing intact IgG at around 150kDa (NR) and intact heavy and light chains at 50kDa and 30kDa resp. (R).

Specificity and selectivity of AE00149 to KRT18 were tested against >19,000 full-length human proteins on a human protein array. A protein BLAST search against H. sapiens revealed similarities with all other KRT proteins, all of which are part of the array showing no cross-reactivity.



Cross-reactivity assessment of KRT18 Mouse Monoclonal Antibody AE00149 (1ug/ml) on CDI's Protein Array containing more than 19,000 full-length human proteins.

The Z-score represents the strength of a signal that an antibody (through a fluorophore-tagged secondary reagent) produces when binding to a particular protein on the array. Z-scores are in units of standard deviations (SD's) above the mean value of all signals generated on that array. When Z-scores are arranged in descending order, the difference between two successive values will be the S-score for the first. Thus, the S-score represents the relative specificity of the antibody to its intended target. An antibody is considered specific to its intended target, when it has an S-score of at least 2.5. For example, if an antibody binds to intended protein X with a Z-score of 43 and to the cross-reacting protein Y with a next Z-score of 14, then the S-score for the antibody to intended target X equals 29 (43-14).