



## Cat nr AE00289

## Product Datasheet

Recombinant Mouse Antibody, clone rSOX10/1074 to:

### SOX10, SRY-box transcription factor 10

Transcription factor SOX-10; DOM; WS4; PCWH; SOX10; WS2E; WS4C

Cellular localization                      Nucleus

Official Symbol (Gene)                      SOX10

GenelD    6663

SwissProt    P56693

Confirmed Applications                      IHC, PA  
Positive controls                              Melanoma, carcinoma

Aeonian Rating©                              92

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, kappa  
Confirmed species reactivity                      Human  
Immunogen    Recombinant fragment around aa 115-269 of human SOX10 protein  
    (exact sequence is proprietary)  
Epitope    Within aa 115-269 region

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.

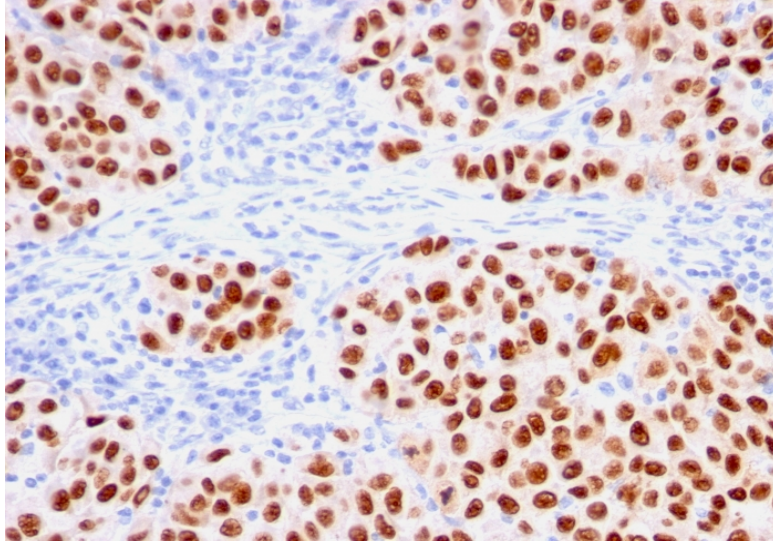
Liability    This product is for in vitro research use only. Any other applications, such as diagnostics or therapeutics, or in vivo experiments, and the validation of this product therein, are solely at the responsibility of the buyer/user.

Product performance                              see next page

**Product data:**

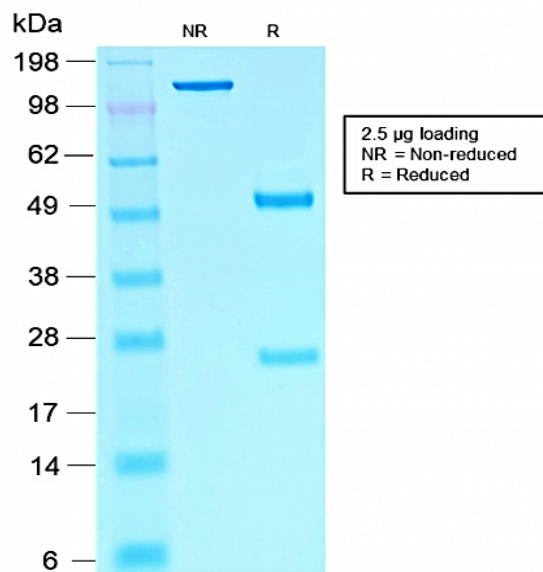
**ImmunoHistoChemistry (IHC):**

This product was used to stain nuclei in human melanoma sections. Recommended concentration: 0.3-1ug/ml



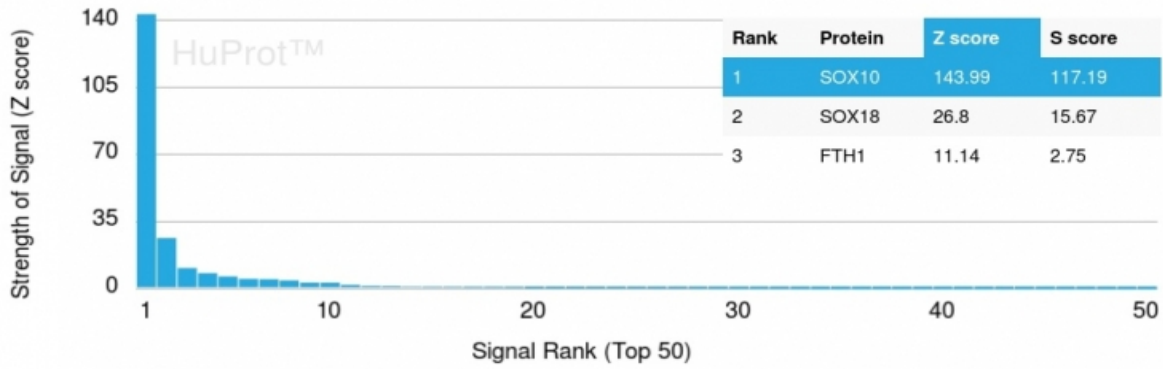
Formaldehyde-fixed, paraffin-embedded human melanoma stained with SOX10 Mouse Recombinant Antibody AE00289 at 0.3-0.5ug/ml for 30 minutes at RT. Epitope retrieval: Boiling at pH6 for 10-20 min followed by 20 min cooling. DAB staining by HRP polymer.

**SDS-PAGE Analysis of Purified SOX10 Mouse Recombinant Antibody AE00289. Confirmation of Purity and Integrity of Antibody.**



Integrity of the purified antibody AE00289 under non-reduced and reduced conditions, showing intact IgG at around 150kDa (NR) and intact heavy and light chains at 50kDa and 25kDa resp. (R).

Specificity and selectivity of AE00289 to SOX10 were tested against >19,000 full-length human proteins on a human protein array. A protein BLAST search against H. sapiens revealed the following closely related proteins: SOX8 and SOX9. These proteins were part of the array used and showed no cross-reactivity signals.



Cross-reactivity assessment of SOX10 Mouse Recombinant Antibody AE00289 (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).