



Cat nr AE00271

Product Datasheet

Mouse Monoclonal Antibody, clone HRB2/451 to:

HER2, ERBB2

Erb-b2 receptor tyrosine kinase 2; Receptor tyrosine-protein kinase erbB-2; Metastatic lymph node gene 19 protein; Proto-oncogene c-ErbB-2; Proto-oncogene Neu; Tyrosine kinase-type cell surface receptor HER2; CD340; HER-2; HER-2/neu; HER2; MLN 19; MLN19; NEU; NGL; TKR1; p185erbB2

Cellular localization Plasma membrane, cell surface

Official Symbol (Gene) ERBB2
GenelD 2064
SwissProt P04626

Confirmed Applications ICC, PA
Positive controls HER2-type breast cancer, MCF7
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, kappa
Confirmed species reactivity Human
Immunogen Recombinant full length HER2 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.

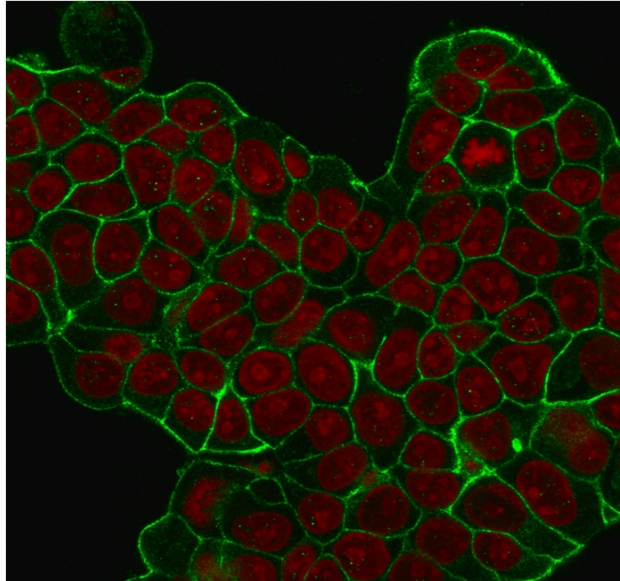
Liability This product is for in vitro research use only. Any other applications, such as diagnostics or therapeutics, or in vivo experiments, and the validation of this product therein, are solely at the responsibility of the buyer/user.

Product performance see next pages

Product data:

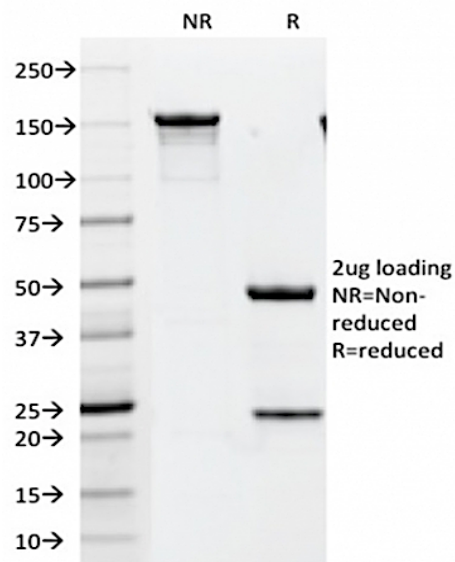
ImmunoCytoChemistry (ICC):

This product shows plasma membrane staining in cell line MCF7. Recommended concentration: 2-4ug/ml



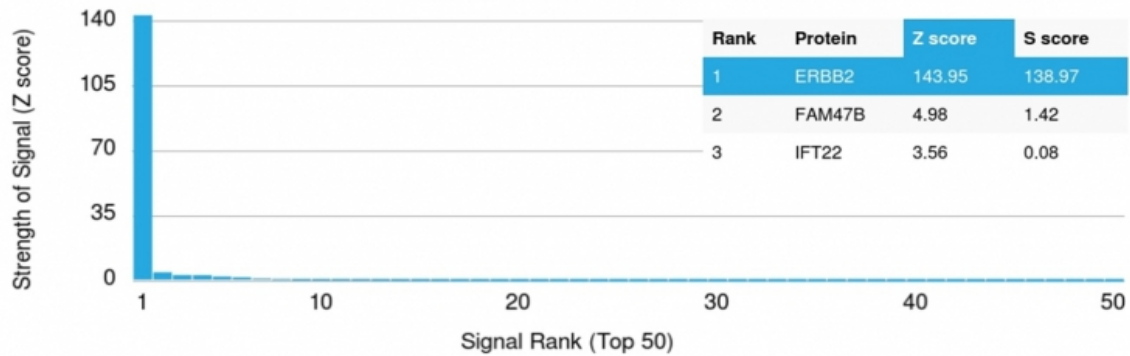
Confocal microscopy of cell line MCF7 stained with HER2 Mouse Monoclonal Antibody AE00271 at 3ug/ml (1h at ambient temp). CF488 (green) staining of the antibody and RedDot (red) for nuclear staining.

SDS-PAGE Analysis of Purified HER2 Mouse Monoclonal Antibody AE00271. Confirmation of Purity and Integrity of Antibody.



Integrity of the purified antibody AE00271 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 AE00271 to HER2 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: EGFR, HER3 and HER4. These proteins were part of the array used and showed no cross-reactivity signals.



Cross-reactivity assessment of HER2 Mouse Monoclonal Antibody AE00271 (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).