



Cat nr AE00226

Product Datasheet

Mouse Monoclonal Antibody, clone ERBB4/2581 to:

ERBB4, HER4

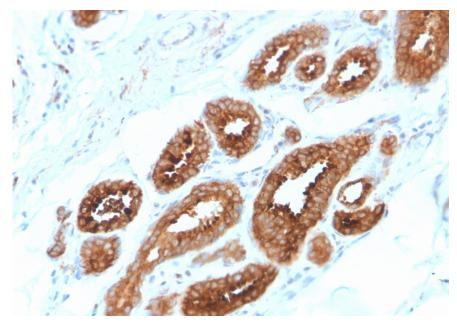
Proto-oncogene-like protein c-ErbB-4; Receptor tyrosine-protein kinase erbB-4; Tyrosine kinase-type cell surface receptor HER4; erb-b2 receptor tyrosine kinase 4; HER4; ALS19; p180erbB4;

Cellular localization	Plasma membrane, cell surface
Official Symbol (Gene) GeneID SwissProt	ERBB4 2066 Q15303
Confirmed Applications Positive controls Customers positive feedback Aeonian Rating©	IHC, PA breast carcinoma 85
Purification Formulation	By Protein G from bioreactor concentrate 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) 20ug 100ug Mouse IgG1, kappa Human Recombinant fragment around aa 1116-1269 of human HER4 protein (exact sequence is proprietary) Cytoplasmic domain (within aa 1116-1269 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 pages

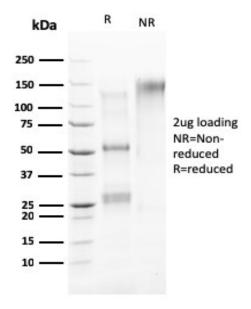
Product data:

ImmunoHistoChemistry (IHC):

This product shows membrane staining of epithelial cells in human breast carcinoma sections. Recommended concentration: 1-3ug/ml

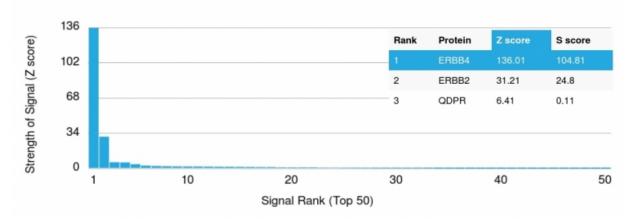


SDS-PAGE Analysis of Purified HER4 Mouse Monoclonal Antibody AE00226. Confirmation of Purity and Integrity of Antibody.



Integrity of the purified antibody AE00226 under non-reduced and reduced conditions, showing intact IgG at around 150kDa (NR) and intact heavy and light chains at 60kDa and 26-27kDa resp. (R).

Specificity and selectivity of AE00226 to HER4 were tested against >19,000 full-length human proteins on a human protein array. A protein BLAST search of the antigen region against H. sapiens revealed no closely related other proteins. Note its low response to HER2 (ERBB2).



Cross-reactivity assessment of HER4 Mouse Monoclonal Antibody AE00226 (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).