



Cat nr AE00260

Product performance

Product Datasheet

Mouse Monoclonal Antibody, clone AKT1/2784 to:

AKT1, serine/threonine kinase 1

AKT; CWS6; PKB; PKB-ALPHA; PKBalpha; PRKBA; RAC; RAC-ALPHA; RAC-alpha serine/threonine-protein kinase; Protein kinase B; Protein kinase B alpha; Proto-oncogene c-Akt; RAC-PK-alpha

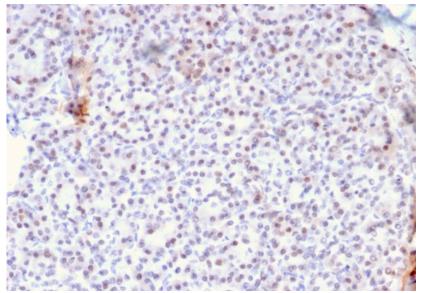
Cellular localization	Nucleus, intracellular vesicles and plasma membrane
Official Symbol (Gene) GenelD SwissProt	AKT1 207 P31749
Confirmed Applications Positive controls	IHC, PA, WB pancreas, NIH3T3
Aeonian Rating©	85
Purification Formulation Amount Isotype Confirmed species reactivity Immunogen	By Protein G from bioreactor concentrate 200 ug IgG/ml in PBS, 0.05% BSA, 0.05% azide (20 ug or 100 ug) 1mg IgG/ml in PBS (100 ug or contact us for quotation) 20 ug 100 ug Mouse IgG Human, Mouse Recombinant fragment around aa 85-189 of human AKT1 protein (exact sequence is proprietary)
Epitope	Within aa 85-189 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.

see next pages

Product data:

ImmunoHistoChemistry (IHC):

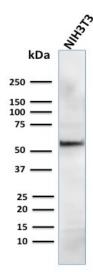
This product shows nuclear staining in human pancreas sections. Recommended concentration: 1-3ug/ml



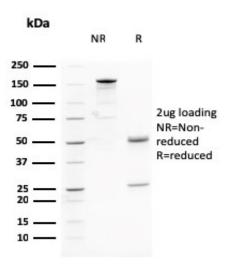
Formaldehyde-fixed, paraffin-embedded human pancreas stained with AKT1 Mouse Monoclonal Antibody AE00260 at 1-2ug/ml for 30 minutes at RT. Epitope retrieval: Boiling at pH6 for 10-20 min followed by 20 min cooling. DAB staining by HRP polymer.

Western Blot (WB):

This product was successfully used to stain an approx. 60kDa band in lysates of cell line NIH3T3. Recommended concentration: 1-3ug/ml

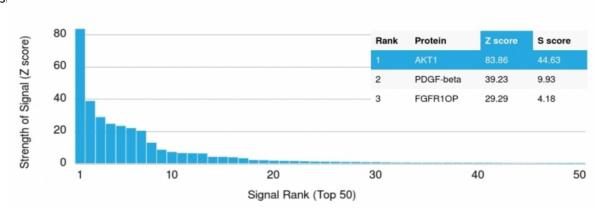


SDS-PAGE Analysis of Purified AKT1 Mouse Monoclonal Antibody AE00260. Confirmation of Purity and Integrity of Antibody.



Integrity of the purified antibody AE00260 under non-reduced and reduced conditions, showing intact IgG at around 160kDa (NR) and intact heavy and light chains at 50kDa and 25kDa resp. (R).

Specificity and selectivity of AE00260 to AKT1 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: AKT2 and AKT3. These proteins were part of the array used and showed no cross-reactivity si



Cross-reactivity assessment of AKT1 Mouse Monoclonal Antibody AE00260 (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).