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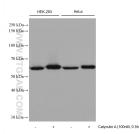
AKT1-Specific Recombinant antibody

Catalog Number:80457-1-RR 4 Publications

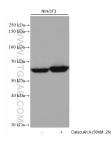


| Basic Information | Catalog Number: 80457-1-RR | GenBank Accession Number: NM_005163 | Purification Method: Protein A purification | |
|---|--|---|---|--|
| | Size: | GenelD (NCBI): | CloneNo.: | |
| | 100ul , Concentration: 1000 ug/ml by | | 415 | |
| | Nanodrop; | UNIPROT ID: | Recommended Dilutions: | |
| | Source: Rabbit | P31749 | WB 1:5000-1:50000 | |
| | | Full Name: v-akt murine thymoma viral | IHC 1:50-1:500 IF/ICC 1:200-1:800 | |
| | Isotype: IgG | oncogene homolog 1 | | |
| | | Observed MW: 56-62 kDa | | |
| Applications | Tested Applications: | Positiv | Positive Controls: WB : HEK-293 cells, HEK-293T cells, NIH/3T3 cells, Calyculin A treated HepG2 cells, Calyculin A treated | |
| | WB, IHC, IF/ICC, ELISA | | | |
| | Cited Applications: WB | HEK-293 cells, HeLa cells, Calycu | | |
| | Species Specificity: | | cells, Calyculin A treated NIH/3T3 cells | |
| | human, mouse | IHC : h | numan breast cancer tissue, | |
| | Cited Species: human, mouse | IF/ICC | : HeLa cells, | |
| | retrieval may be performed w | | | |
| Background Information | buffer pH 6.0 AKT is a serine/threonine kinase and Phosphatidylinositol-3 kinase (PI3K) to PIP3-rich areas of the plasma mem AKT. AKT's activating kinase, phosphor microdomains. PDK1 phosphorylates and leading to a second phosphorylate further potentiates kinase activity. Ac | is the key regulator of AKT acti brane results in a conformatio binositide-dependent protein k AKT on threonine 308 (Thr308) tion of AKT at serine 473 (Ser47 ctive AKT will phosphorylate v | ivation. The recruitment of inactive AKT prote nal change that exposes the activation loop o tinase (PDK1), is also recruited to PIP3 of the exposed activation loop, activating AK 73) by a kinase presumed to be mTORC2 that arious downstream protein targets that contro | |
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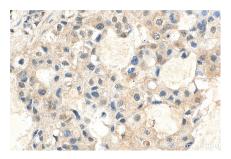
Selected Validation Data



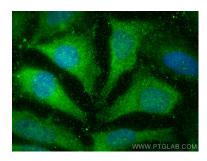
Non-treated and Calyculin A treated cells were subjected to SDS PAGE followed by western blot with 80457-1-RR (AKT 1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Non-treated and Calyculin A treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 80457-1-RR (AKT1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 80457-1-RR (AKT1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using AKT1 (C-terminal) antibody (80457-1-RR, Clone: 415) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).