

30-1361: Anti-PKAc Monoclonal Antibody (Clone:6D2.1)

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| Clonality : | Monoclonal |
| Clone Name : | 6D2.1 |
| Application : | WB |
| Reactivity : | Human |
| Format : | Purified |
| Isotype : | Mouse IgG1 |
| Immunogen Information : | Peptide corresponding to amino acids ESPAQNTAHLDQFERIK of human proteinkinase A c alpha (PKAc alpha). |

Description

Protein kinase A (PKA, cAMP-dependent protein kinase) is a key element of a ubiquitous signaling pathway important in the cell cycle, cellular communication, memory formation and behavior. PKA is composed of two catalytic (PKAc; Protein Kinase A catalytic subunit) and two regulatory subunits (PKAr). Upon binding cAMP, the complex dissociates to PKAr dimer and two activated PKAc ser/thr protein kinase catalytic monomers. The released PKAc can translocate into the nucleus and exert a regulatory role in the activation of multiple nuclear hormone receptors. However, PKAc-mediated activation of tonicity-dependent gene expression is cAMP independent. Humans express three types of PKAc subunit - PKAc alpha is present in most human tissues, PKAc beta and gamma are tissue-specific, the later is found in testes.

Product Info

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| Amount : | 0.1 mg |
| Purification : | Purified by protein-A affinity chromatography |
| Storage condition : | Store at 2-8°C. Do not freeze. |

Application Note

Western Blotting *Recommended dilution:* 0.5-1 μ g/ml

Positive control: HeLa human cervix carcinoma cell line

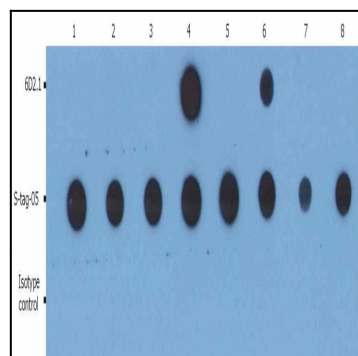


Figure 1: Dot Blot analysis of GST and GST-fusion proteins using anti-PKAc (6D2.1) and anti-GST (S-tag-05;). The total amount of material spotted on the nitrocellulose membrane is 5 ng/spot. Lane 1: GST-Akt1. Lane 2: GST-Akt2. Lane 3: GST-Akt3. Lane 4: GST-PKAc alpha. Lane 5: GST-PKAc beta. Lane 6: GST-PKAc gamma. Lane 7: GST-MEK 1. Lane 8: GST