

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

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	6D2.1
<b>Application :</b>	WB
<b>Reactivity :</b>	Human
<b>Format :</b>	Purified
<b>Isotype :</b>	Mouse IgG1
<b>Immunogen Information :</b>	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

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

### Application Note

**Western Blotting** *Recommended dilution:* 0.5-1  $\mu$ g/ml

*Positive control:* HeLa human cervix carcinoma cell line

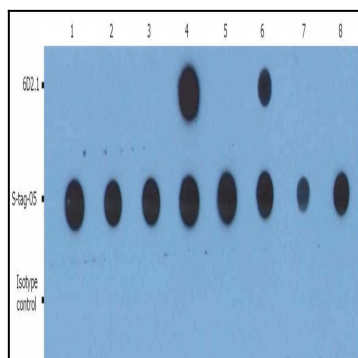


Figure 1: Dot Blot analysis of GST and GST-fusion proteins using anti-PKAc (6D2.1) and anti-GST (S-tag-05; ). The total amount of material spotted on the nitrocellulose membrane is 5 ng/spot. Lane 1: GST-Akt1. Lane 2: GST-Akt2. Lane 3: GST-Akt3. Lane 4: GST-PKAc alpha. Lane 5: GST-PKAc beta. Lane 6: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