Akt1/2/3

VENDOR: Santa Cruz Biotechnology

Cat #: sc-8312

SIMPLE WESTERN CERTIFIED ANTIBODY DATASHEET

View Antibody Link

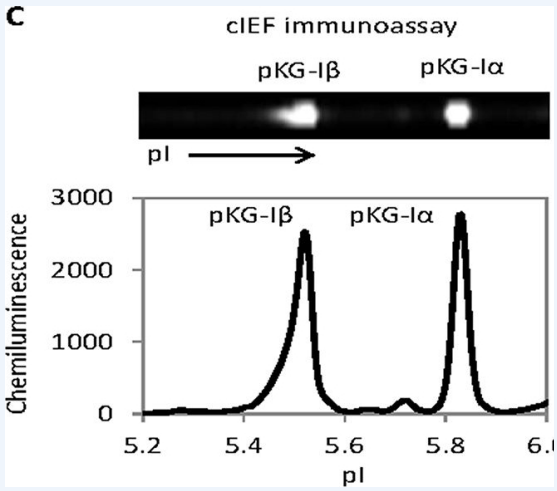

Figure 1: Detection of PKG-I isoforms using cIEF immunoassays. cIEF immunoassay images (upper panels) and chemiluminescent intensity as a function of isoelectric points plot (lower panel).

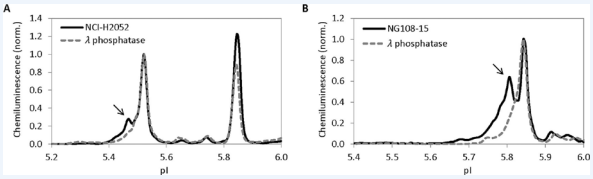

Figure 2: Detection of phosphorylation of PKG-Iα and PKG-Iβ with cIEF immunoassays.(A) Multiple PKG-Iβ peaks were detected in NCI-H2052 total cell lysates (solid line). Left-shifted PKG-Iβ peak was removed following treatment of NCI-H2052 total cell lysates with λ phosphatase (dashed line). Peak intensity was normalized to 1 for PKG-Iβ. (B) Multiple PKG-Iα peaks were detected in NG108-15 total cell lysates (solid line). Left-shifted PKG-Iα was removed following treatment of NG108-15 total cell lysates with λ phosphatase (dashed line). Peak intensity was normalized to 1 for PKG-Iβ and PKG-Iα. in A and B, respectively, to permit clear visualization of pI shift following λ phosphatase treatment.

PROTEIN TARGET/ANTIBODY	
Protein Target	Akt1/2/3
Protein Isoform	Unmodified
Antibody Type	Primary
Host Species/Clonality	Rabbit Polyclonal
ASSAY	
Sample Type	Null
Sample Concentration	Not_Stated
Antibody Concentration/Dilution	Not_Stated
Antibody Diluent	
Detection Mode	Chemiluminescence
Separation Type	Charge
Matrix	Not_Stated
Observed kDa	Not_Stated

PUBLICATIONS

1. Sabnis, H., Bradley, H. L., et al. Capillary nano-immunoassay for Akt 1/2/3 and 4EBP1 phosphorylation in acute myeloid leukemia. J Transl Med. 2014 Jun 12;12(NULL):166. 10.1186/1479-5876-12-166. PMID:24923301.
2. Johlfs, M. G., Gorjala, P., et al. Capillary Isoelectric Focusing Immunoassay for Fat Cell Differentiation Proteomics. PLoS One. 2015;10(7):e0132105. 10.1371/JOURNAL.PONE.0132105. PMID:26132171.
3. Padhan, N., Nordling, T. E., et al. High sensitivity isoelectric focusing to establish a signaling biomarker for the diagnosis of human colorectal cancer. BMC Cancer. 2016 Aug 25;16(1):683. 10.1186/S12885-016-2725-Z. PMID:27562229.
4. Urasaki, Y., Zhang, C., et al. Quantitative Assessment of Liver Steatosis and Affected Pathways with Molecular Imaging and Proteomic Profiling. Sci Rep. 2018 Feb 26;8(1):3606. 10.1038/S41598-018-22082-6. PMID:29483581.
5. Urasaki, Y., Beaumont, C., et al. Potency Assessment of CBD Oils by Their Effects on Cell Signaling Pathways. Nutrients. 2020 Jan 30;12(2):NULL. 10.3390/NU12020357. PMID:32019055.
6. Urasaki, Y., Beaumont, C., et al. Fast-Acting and Receptor-Mediated Regulation of Neuronal Signaling Pathways by Copaiba Essential Oil. Int J Mol Sci. 2020 Mar 25;21(7):NULL. 10.3390/IJMS21072259. PMID:32218156.
7. Urasaki, Y., Beaumont, C., et al. Akt3 Regulates the Tissue-Specific Response to Copaiba Essential Oil. Int J Mol Sci. 2020 Apr 19;21(8):NULL. 10.3390/IJMS21082851. PMID:32325885.

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