Akt1/2/3

VENDOR: Santa Cruz Biotechnology

Cat #: sc-8312

SIMPLE WESTERN CERTIFIED ANTIBODY DATASHEET

View Antibody Link

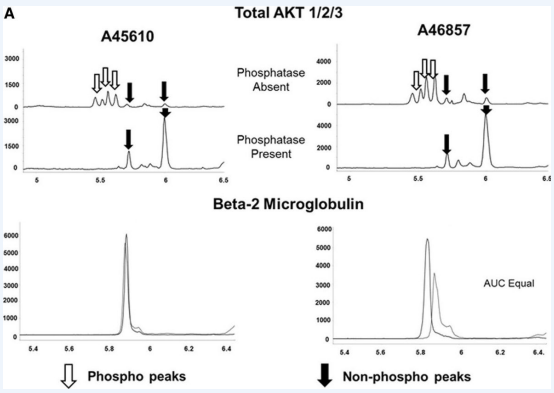

Figure 1: Measurement of total and phosphorylated Akt 1/2/3 in primary AML samples. A) Samples (n = 4) were treated with lambda phosphatase and electropherogram demonstrated decrease in phosphorylated forms using total Akt 1/2/3 antibody. Two representative samples are shown. β-2 Microglobulin was used as loading control. X-axis represents iso-electric pH and y-axis represents luminescence units.

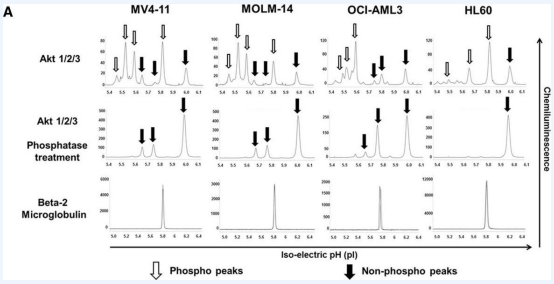

Figure 2: Measurement of total and phosphorylated Akt 1/2/3 in AML cell lines. A) Electropherogram depicting levels of total Akt 1/2/3 in AML cell lines. AML cell lines MV4-11, MOLM-14, OCI-AML3 and HL60 were analyzed at baseline for activation of Akt. 80 ng of protein was used for analysis. β-2 Microglobulin was used as loading control. Total Akt antibody detects both phosphorylated and non-phosphorylated protein which is demonstrated on treatment with phosphatase. X-axis represents iso-electric pH and y-axis represents luminescence units.

PROTEIN TARGET/ANTIBODY	
Protein Target	Akt1/2/3
Protein Isoform	Unmodified
Antibody Type	Primary
Host Species/Clonality	Rabbit Polyclonal
ASSAY	
Sample Type	HL-60,MOLM-14,MV4-11,OCI-AML3, Bone marrow
Sample Concentration	Not_Stated
Antibody Concentration/Dilution	1:1000
Antibody Diluent	
Detection Mode	Chemiluminescence
Separation Type	Charge
Matrix	pH 5-8
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.

This antibody is certified for Gel-Free, Blot Free, Hands Free Simple Western Systems. To learn about Simple Western Systems, available Simple Western antibodies, or new antibody submissions visit the links below. For additional information, please contact support@proteinsimple.com.

Simple Western Systems | Simple Western Antibody Database | Simple Western Antibody Submission

bio-techne®
bio-techne.com

Global info@bio-techne.com bio-techne.com/find-us/distributors TEL +1 612 379 2956
North America TEL 800 343 7475 **Europe | Middle East | Africa** TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373