

SIMPLE WESTERN CERTIFIED ANTIBODY DATASHEET

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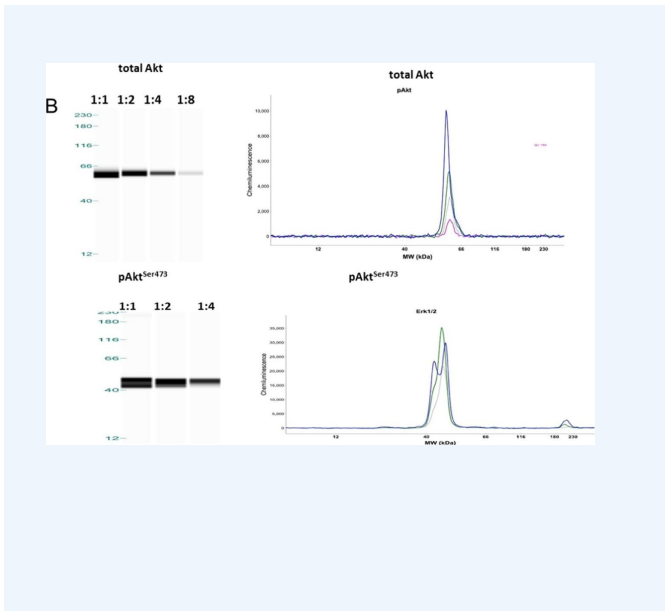


Figure 1: Detection of CD36 (a), total AKT, pAKTS473 (b) and total Erk1/2, pErk1/2 (c) in Capillary western blot (Wes®) assay, using two-fold dilutions of calibrator samples. The calibrator sample was obtained from a pooled whole-tissue extract from 3 to 4 surgical waste adipose tissues. Capillary western blot results were shown as gel-like image view in left panel and electropherograms in right panel, showing decreasing intensities of bands and decreasing peak areas with serial dilutions of loading samples

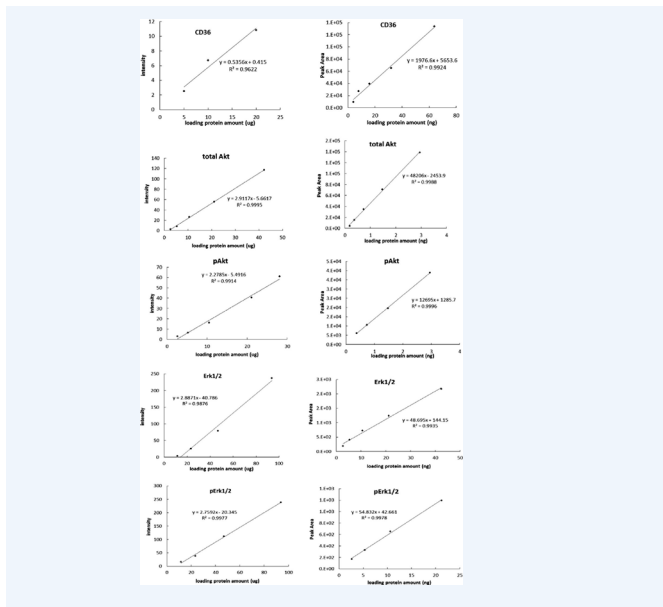


Figure 2: Comparison of the dynamic range of capillary western blot (Wes®) assay to traditional western blot. Linear relationship between relative amounts of CD36, total Akt, pAktS473, total Erk1/2, pErk1/2 (y axis) and loading protein amounts (x axis) could be got both in western blot (left panels) and Wes (right panels) assay by using serially 2-fold dilution of calibrator samples. Intensities of bands in western blot and areas under peaks in Wes (y axis) were detected to present for the relative amount of special proteins

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PROTEIN TARGET/ANTIBODY	
Protein Target	Akt (pan) (C67E7)
Protein Isoform	Unmodified
Antibody Type	Primary
Host Species/Clonality	Rabbit Monoclonal
ASSAY	
Sample Type	Adipose
Sample Concentration	Not_ Stated
Antibody Concentration/Dilution	1:1000
Antibody Diluent	
Detection Mode	Chemiluminescence
Separation Type	Size
Matrix	12-230kDa
Observed kDa	60kDa

PUBLICATIONS	
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2.	Guo, H., Gao, M., et al. Coordinate phosphorylation of multiple residues on single AKT1 and AKT2 molecules. <i>Oncogene.</i> 2014 Jun 26;33(26):3463-72. 10.1038/ONC.2013.301. PMID:23912456.
3.	Iacovides, D. C., Johnson, A. B., et al. Identification and quantification of AKT isoforms and phosphoforms in breast cancer using a novel nanofluidic immunoassay. <i>Mol Cell Proteomics.</i> 2013 Nov;12(11):3210-20. 10.1074/MCP.M112.023119. PMID:23929892.
4.	Guo, L., Eldridge, S., et al. Use of Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes (hiPSC-CMs) to Monitor Compound Effects on Cardiac Myocyte Signaling Pathways. <i>Curr Protoc Chem Biol.</i> 2015 Sep 1;7(3):141-185. 10.1002/9780470559277.CH150035.
5.	Rodina, A., Wang, T., et al. The epichaperome is an integrated chaperome network that facilitates tumour survival. <i>Nature.</i> 2016 Oct 20;538(7625):397-401. 10.1038/NATURE19807. PMID:27706135.
6.	Baio, J., Martinez, A. F., et al. Spaceflight Activates Protein Kinase C Alpha Signaling and Modifies the Developmental Stage of Human Neonatal Cardiovascular Progenitor Cells. <i>Stem Cells Dev.</i> 2018 Jun 15;27(12):805-818. 10.1089/SCD.2017.0263. PMID:293209
7.	Lu, J., Allred, C. C., et al. Human adipose tissue protein analyses using capillary western blot technology. <i>Nutr Diabetes.</i> 2018 Apr 25;8(1):26. 10.1038/S41387-018-0030-4. PMID:29695704.
8.	Luo, H., Cong, S., et al. Paired-related homeobox 1 overexpression promotes multidrug resistance via PTEN/PI3K/AKT signaling in MCF-7 breast cancer cells. <i>Mol Med Rep.</i> 2020 Oct;22(4):3183-3190. 10.3892/MMR.2020.11414. PMID:32945446.
9.	Hjelholt, A. J., Charidemou, E., et al. Insulin resistance induced by growth hormone is linked to lipolysis and associated with suppressed pyruvate dehydrogenase activity in skeletal muscle: a 2 x 2 factorial, randomised, crossover study in human individu
10.	Ramos, P. A., Lytle, K. A., et al. Insulin-Stimulated Muscle Glucose Uptake and Insulin Signaling in Lean and Obese Humans. <i>J Clin Endocrinol Metab.</i> 2021 Mar 25;106(4):e1631-e1646. 10.1210/CLINEM/DGAA919. PMID:33382888.
11.	Zhu, F., Xu, Y., et al. Epigallocatechin Gallate Protects against MNNG-Induced Precancerous Lesions of Gastric Carcinoma in Rats via PI3K/Akt/mTOR Pathway. <i>Evid Based Complement Alternat Med.</i> 2021;2021(NULL):8846813. 10.1155.2021/8846813. PMID:33628319.
12.	Dong, Z., Dai, H., et al. Inhibition of the Wnt/ β -catenin signaling pathway reduces autophagy levels in complement treated podocytes. <i>Exp Ther Med.</i> 2021 Jul;22(1):737. 10.3892/ETM.2021.10169. PMID:34055054.

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