

SIMPLE WESTERN CERTIFIED ANTIBODY DATASHEET

[View Antibody Link](#)

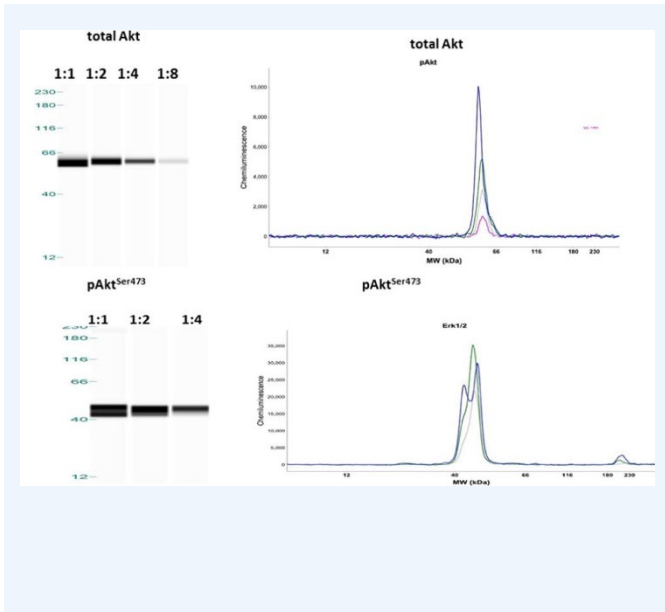


Figure 1: Detection of total AKT, pAKT Ser473 in Capillary western blot (Wes®) assay, using two-fold dilutions of calibrator samples. The calibrator sample was obtained from a pooled whole-tissue extract from 3 to 4 surgical waste adipose tissues. Capillary western blot results were shown as gel-like 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

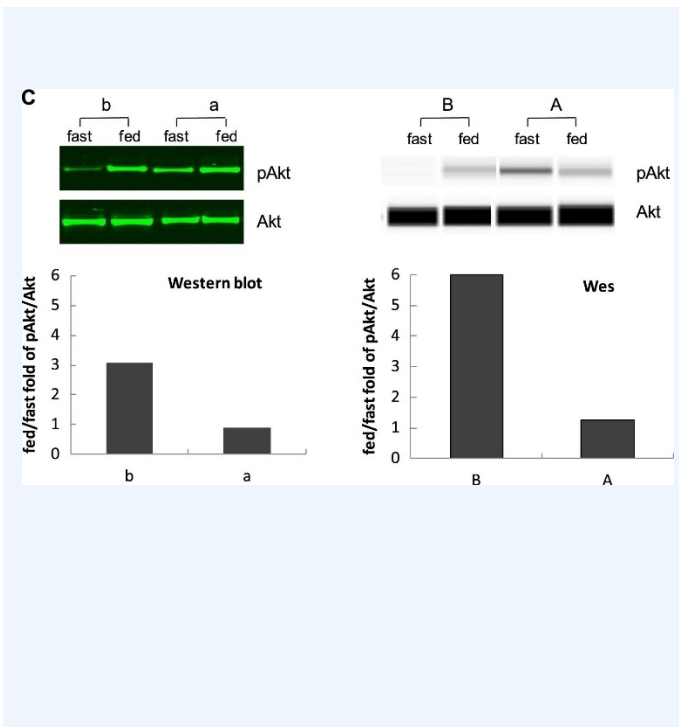


Figure 2: Comparison of adipose tissue samples assays in western blot (left panel) and Wes® (right panel) for Akt (c). Adipose tissue samples used to detect Akt were obtained separately from 3 different studies. Either western blot or Wes showed the diverse results for fold increases in pAKT Ser473/Akt. Sample a-b and A-B represented low-high results in western blot and Wes® assay accordingly.

*Image collected and cropped by CiteAb from the following publication (<http://www.nature.com/articles/s41387-018-0030-4>), licensed under a CC-BY licence

PROTEIN TARGET/ANTIBODY	
Protein Target	AKT
Protein Isoform	AKT
Antibody Type	Primary
Host Species/Clonality	Rabbit monoclonal
ASSAY	
Sample Type	Adipose Tissue
Sample Concentration	Not Listed
Antibody Concentration/Dilution	1:100
Antibody Diluent	
Detection Mode	Chemiluminescence
Separation Type	Size
Matrix	12 - 230 kDa
Observed kDa	61

PUBLICATIONS	
1.	Lu J, Allred CC, Jensen MD. Human adipose tissue protein analyses using capillary western blot technology. <i>Nutr Diabetes</i> . 2018 Apr 25;8(1):26. doi: 10.1038/s41387-018-0030-4. PMID: 29695704; PMCID: PMC5916899.
2.	Guo H, Gao M, Lu Y, Liang J, Lorenzi PL, Bai S, Hawke DH, Li J, Dogruluk T, Scott KL, Jonasch E, Mills GB, Ding Z. Coordinate phosphorylation of multiple residues on single AKT1 and AKT2 molecules. <i>Oncogene</i> . 2014 Jun 26;33(26):3463-72. doi: 10.1038/onc.2013.301. Epub 2013 Aug 5. PMID: 23912456; PMCID: PMC3915040.
3.	Iacovides DC, Johnson AB, Wang N, Boddapati S, Korkola J, Gray JW. 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. doi: 10.1074/mcp.M112.023119. Epub 2013 Aug 8. PMID: 23929892; PMCID: PMC3820934.
4.	Rodina A, Wang T, Yan P, Gomes ED, Dunphy MP, Pillarsetty N, Koren J, Gerecitano JF, Taldone T, Zong H, Caldas-Lopes E, Alpaugh M, Corben A, Riolo M, Beattie B, Pressl C, Peter RI, Xu C, Trondl R, Patel HJ, Shimizu F, Bolaender A, Yang C, Panchal P, Farooq MF, Kishinevsky S, Modi S, Lin O, Chu F, Patil S, Erdjument-Bromage H, Zanzonico P, Hudis C, Studer L, Roboz GJ, Cesarman E, Cerchietti L, Levine R, Melnick A, Larson SM, Lewis JS, Guzman ML, Chiosis G. The epichaperome is an integrated chaperome network that facilitates tumour survival. <i>Nature</i> . 2016 Oct 20;538(7625):397-401. doi: 10.1038/nature19807. Epub 2016 Oct 5. PMID: 27706135; PMCID: PMC5283383.
5.	Luo H, Cong S, Dong J, Jin L, Jiang D, Wang X, Chen Q, Li F. 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. doi: 10.3892/mmr.2020.11414. Epub 2020 Aug 4. PMID: 32945446; PMCID: PMC7453582.

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](#)

PAGE 2/2

biotechne[®]

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

Trademarks and registered trademarks are the property of their respective owners.