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Human and Mouse AKT Pathway Phosphorylation Array C1



Image



Publication



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4 samples					
Human, Mouse					
Sandwich ELISA					
Antibody Array (AA)					
C-Series Human and Mouse AKT Pathway Phosphorylation Array C1. Detects 18					
phosphorylated human and mouse proteins. Suitable for all liquid sample types but intended for					
use with cell and tissue lysates.					
Plasma, Cell Culture Supernatant, Serum, Cell Lysate, Tissue Lysate					
Semi-Quantitative					
Chemiluminescent					
Akt (P-Ser473) (PKB (P-Ser473)), AMPKa (P-Thr172), BAD (P-Ser112), 4E-BP1 (P-Thr36), ERK1					
(P-T202/Y204)/ERK2 (P-Y185/Y187), GSK3a (P-Ser21), GSK3b (P-Ser9), mTOR (P-Ser2448),					
p27 (P-Thr198), P53 (P-Ser15), P70S6K (P-Thr421/Ser424), PDK1 (P-S241), PRAS40 (P-Thr246)					
PTEN (P-Ser380), Raf-1 (Ser301), RPS6 (P-Ser235/Ser236), RSK1 (P-Ser380), RSK2 (P-Ser386)					
Easy to use					
No specialized equipment needed					
Compatible with nearly any liquid sample Proven to the plant (nearly subdications)					
Proven technology (many publications)Highly sensitive (pg/mL)					
Sandwich ELISA specificity					
Higher density than ELISA, Western blot or bead-based multiplex					

Product Details

Components:

Antibody Array Membranes

Biotinylated Detection Antibody Cocktail

Blocking Buffer

Wash Buffers 1 and 2

Cell & Tissue Lysis Buffer

Detection Buffers C and D

Plastic Incubation Tray

Protease Inhibitor Cocktail (in select kits)

Material not included:

Pipettors, pipet tips and other common lab consumables

Orbital shaker or oscillating rocker

Tissue Paper, blotting paper or chromatography paper

Adhesive tape or Saran Wrap

Distilled or de-ionized water

A chemiluminescent blot documentation system (such as UVP's ChemiDoc-It® or EpiChem II Benchtop Darkroom), X-ray Film and a suitable film processor, or another chemiluminescent detection system.

Application Details

Application Notes:

Perform ALL incubation and wash steps under gentle rotation or rocking motion (~0.5 to 1 cycle/sec) using an orbital shaker or oscillating rocker to ensure complete and even reagent/sample coverage. Rocking/rotating too vigorously may cause foaming or bubbles to appear on the membrane surface which, should be avoided. All washes and incubations should be performed in the Incubation Tray (ITEM 10) provided in the kit. Cover the Incubation Tray with the lid provided during all incubation steps to avoid evaporation and outside debris contamination. Ensure the membranes are completely covered with sufficient sample or reagent volume during each incubation. Avoid forceful pipetting directly onto the membrane, instead, gently pipette samples and reagents into a corner of each well. Aspirate samples and reagents completely after each step by suctioning off excess liquid with a pipette. Tilting the tray so the liquid moves to a corner and then pipetting is an effective method. Optional overnight incubations may be performed for the following step to increase overall spot signal intensities:

- Sample Incubation
- Biotinylated Antibody Cocktail Incubation
- HRP-Streptavidin Incubation

Comment:

The C-Series arrays feature chemiluminescent signal detection. The antibodies are spotted on

Application Details

	nitrocellulose membrane solid supports and are handled in a very similar manner to Western			
	blots.			
	All C-Series arrays work on the sandwich ELISA principle, utilizing a matched pair of antibodies:			
	an immobilized capture antibody and a corresponding biotinylated detection antibody.			
Sample Volume:	1 mL			
Plate:	Membrane			
Protocol:	1. Block membranes			
	2. Incubate with Sample			
	3. Incubate with Biotinylated Detection Antibody Cocktail			
	4. Incubate with HRP-Conjugated Streptavidin			
	5. Incubate with Detection Buffers			
	6. Image with chemiluminescent imaging system			
	7. Perform densitometry and analysis			
Restrictions:	For Research Use only			
Handling				
Handling Advice:	The antibody printed side of each membrane is marked by a dash (-) or number (#) in the upper			
	left corner. Do not allow membranes to dry out during the experiment or they may become			
	fragile and break OR high and/or uneven background may occur. Grasp membranes by the			
	corners or edges only using forceps. DO NOT touch printed antibody spots.			
	como or eager only asing receptor 20 mer. Finited antizon, opered.			
Storage:	-20 °C			
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Image 1.

Each antibody is spotted in dualicate vertically	1 2	POS	POS	NEG	NEG	Akt (P-Ser473)	AMPKa (P-Thr172)	BAD (P-Ser112)	4E-BP1 (P-Thr36)
		ERK1 (P-T202/Y204) ERK2 (P-Y185/Y187)	GSK3a (P-Ser21)	GSK3b (P-Ser9)	mTOR (P-Ser2448)	p27 (P-Thr198)	P53 (P-Ser15)	P70S6K (P-Thr421/Ser424)	PDK1 (P-Ser241)
	5	PRAS40 (P-Thr246)	PTEN (P-Ser380)	Raf-1 (Ser301)	RPS6 (P-Ser235/236)	RSK1 (P-Ser380)	RSK2 (P-Ser386)	NEG	POS