

# MULTI-KINASE ELISA ARRAYS

## WHY USE ELISAS FOR PHOSPHO-KINASE READOUTS?

- Easier, and faster than western blots
- Far greater dynamic range than western blots
- Smaller sample requirements than western blots
- Greater sensitivity than western blots
- Cost-effective too!! Up to SIX data points per assay!

## SYMANSIS MKA ASSAY ADVANTAGES

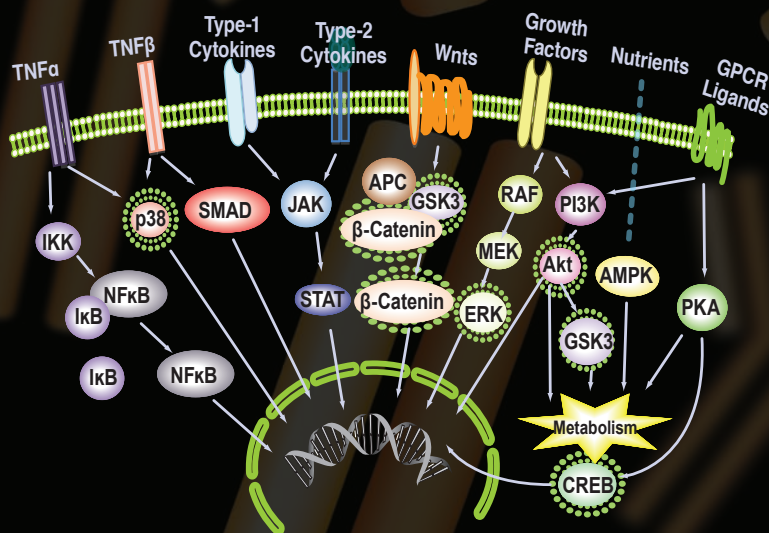
Ultimate flexibility: The data how, and when you want it!

Easy to use strip format  
with 2½ year shelf life!

More data - more quickly  
means faster results!

Suberb sensitivity,  
stability and consistency!

TO UNDERSTAND THIS



JUST USE THIS!

	p-Akt 1 (S473)	p-Akt 2 (S474)	p-ERK1/2*	p-GSK3α (S21)	p-GSK3β (S9)	p-p38α (T180/Y182)	p-CREB (S133)	β-Catenin (DPS33) (DPS37) (DPT41)
A	○	○	○	○	○	○	○	○
B	○	○	○	○	○	○	○	○
C	○	○	○	○	○	○	○	○
D	○	○	○	○	○	○	○	○
E	○	○	○	○	○	○	○	○
F	○	○	○	○	○	○	○	○
G	○	○	○	○	○	○	○	○
H	○	○	○	○	○	○	○	○

\*p-ERK 1: (T202/Y204), p-ERK 2: (T185/Y187)

MIX AND MATCH BETWEEN THESE 8 ANALYTES TO MAKE YOUR OWN ASSAY

- p-p38α (T180/Y182)
- p-ERK 2 (T183/Y185)
- p-ERK 1 (T202/Y204)
- p-CREB (S133)
- p-Akt 1 (S473)
- p-Akt 2 (S474)
- β-Catenin (DPS33/37/T41) (DP = dephosphorylated)
- p-GSKα (S21)
- p-GSKβ (S9)

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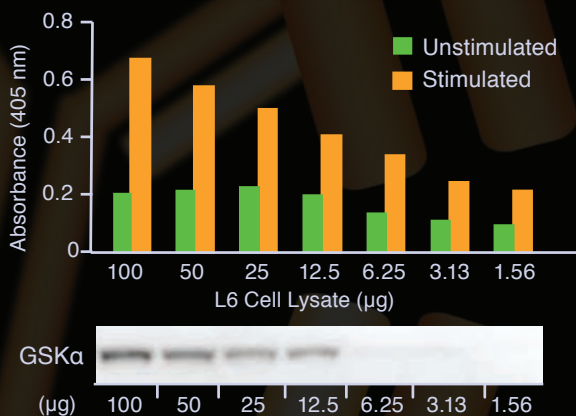
**SYMANSIS**  
CELL SIGNALING SCIENCE

# SYMANSIS MKA KITS

- MKA 001: Customer customizable with up to 6 phospho-targets.
- MKA 002: AKT1 (pS473), AKT2 (pS474), 3 strips each with positive controls.
- MKA 003: GSK3 $\alpha$  (pS21) and GSK3 $\beta$  (pS9), 3 strips each with positive controls.
- MKA 004: Active Beta-Catenin (dephosphorylated) (DP S33/S37/T41) 6 strips with positive controls.
- MKA 005: ERK1/2 (pT202/Y204; pT185/Y187) 6 strips with positive controls.
- MKA 006: CREB (pS133) 6 strips with positive controls.
- MKA 007: p38 $\alpha$  (pT180/Y182) 6 strips with positive controls.
- MKA 008: GSK $\alpha$  (pS21), GSK3 $\beta$  (pS9) & active Beta-Catenin, 2 strips each with positive controls.
- MKA 009: AKT1 (pS473) (1 strip), AKT2 (pS474) (2 strips), GSK3 $\alpha$  (pS21) (1 strip) and GSK3 $\beta$  (pS9) (2 strips) with positive controls.
- MKA 010: AKT1 (pS473) (2 strips), AKT2 (pS474) (1 strip), GSK3 $\alpha$  (pS21) (2 strips) and GSK3 $\beta$  (pS9) (1 strip) with positive controls.

## ONLY WITH SYMANSIS MKA ASSAYS CAN YOU...

HAVE *UNPARALLELED* DYNAMIC RANGE, SIGNAL SENSITIVITY AND SAMPLE SAVINGS!



Activation of GSK $\alpha$  in insulin-treated L6 cells.

A cell lysate titration again demonstrating the MKA's linear dynamic range across wide protein values.

**NOTE: the detection of 2-3 x difference even at < 2 $\mu$ g/mL total protein; an achievement unheard of using traditional western blotting.**

## OBTAIN MULTIPLE DATA POINTS ON MULTIPLE TARGETS IN ONE EXPERIMENT

Symansis MKA assay shows differential phosphorylation status of multiple signaling molecules

HCT116 cells were stimulated with 1 $\mu$ M Insulin for 5 minutes. The Symansis MKA array was used to assess activation of the seven signaling molecules indicated.

