

Store at 4°C

pIMAGO®-biotin Phosphoprotein Detection Kit

For Microplate

Fluor 680 detection

Cat. # 902-100

1 Kit

(100 wells)

Orders:

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▶ www.tymora-analytical.com



This product is for *in vitro* research use only and is not intended for use in humans or animals.

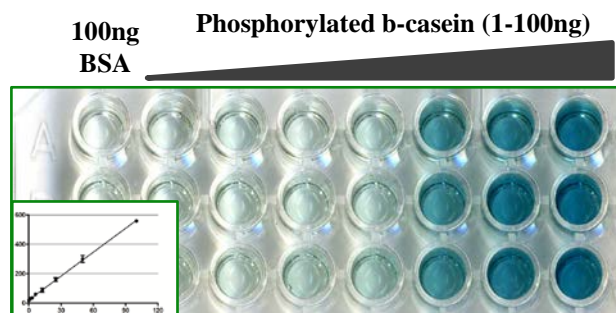
Introduction.

pIMAGO is a universal phosphoprotein detection technology that enables sensitive and specific recognition of phosphorylated molecules. Unlike phospho-antibodies, the binding is not biased by amino acid sequence, and therefore can be used for detection of any phosphorylation event on any protein site. pIMAGO detection protocol resembles a simple ELISA procedure and can be easily incorporated by any laboratory. Due to its small size, pIMAGO can be multiplexed with antibodies for simultaneous detection of phosphorylation and total protein amount.

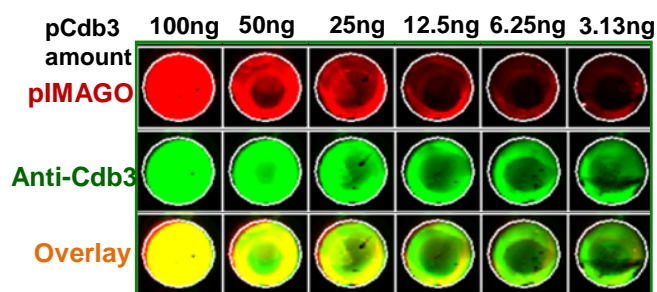
Results.

pIMAGO-based detection and quantitation of phosphorylated b-casein signal compared to non-phosphoprotein BSA (*left figure*). Multiplexed detection of phospho-Cdb3 using pIMAGO in the 700 channel and anti-Cdb3 antibody in the 800 channel (*right figure*). pIMAGO-based kinase assays of 5 kinases and their substrates, including control, ATP, and ATP + Kinase wells (*bottom figure*).

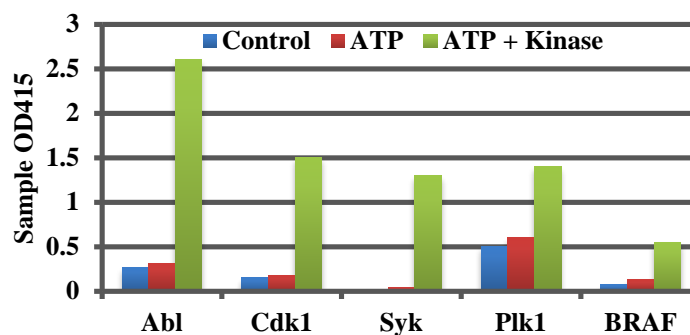
pIMAGO colorimetric detection



pIMAGO fluorescence-based detection



pIMAGO detection of *in vitro* kinase assays



Kit components.

- ✓ 100µL of pIMAGO reagent
- ✓ 100µL of avidin-Fluor680
- ✓ 10mL of Binding buffer
- ✓ 60mL of Blocking buffer
- ✓ 60mL of pIMAGO buffer
- ✓ 50µL of control phosphoprotein
- ✓ 2 flat-bottom clear 96-well plates

Original citation.

Iliuk A, Martinez J, Hall MC, Tao WA (2011).

Phosphorylation assay based on functionalized soluble nanopolymer. *Anal. Chem.* 83(7): 2767-74.

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