A

Egg extract
293 extract

100 kDa
75 kDa
50 kDa

IB: p85
IB: Tubulin

B

Sperm
A23187
H₂O₂
Cathepsin B
IB: p85
IB: phospho-p85

C

Insemination (min) 0 1 2 5 10 40

IB: PLCγ
IB: p85
IB: pUPIII
IB: pMAPK

IB: Tubulin

LD-DIM fractions
Detergent-soluble fractions