

## ERK2, Active

Catalog No: M28-10G

ERK2 is a protein serine/threonine kinase that is a member of the extracellular signal-regulated kinases (ERKs) which are activated in response to numerous growth factors and cytokines. Activation of ERK2 requires both tyrosine and threonine phosphorylation that is mediated by MEK. ERK2 is ubiquitously distributed in tissues with the highest expression in heart, brain and spinal cord. Activated ERK2 translocates into the nucleus where it phosphorylates various transcription factors (e.g., Elk-1, c-Myc, c-Jun, c-Fos, and C/EBP beta). SignalChem's recombinant full-length human ERK2 was expressed by E. coli cells using an N-terminal GST tag and activated by MEK1 in vitro.

### Unique Selling Points



Activity determined  
using two assays



QC/QA tested  
for superior quality



Suitable for  
kinase research



Highly active kinase

### Competitors

**Millipore**  
**Sigma**

ACTIVE  MOTIF®

**R&D SYSTEMS**  
a **biotechne** brand

### Applications



Enzyme Linked  
immunosorbent assays



Western blot



Recombinant  
antibody production



Protein Array



Compound  
profiling studies

