



# SIGNAL TRANSDUCTION

Native proteins, Affinity-tagged variants & Associated products

## GTP Family of Signaling Proteins

- ➔ Small GTPases (Ras Superfamily)
- ➔ Heterotrimeric G-Proteins
- ➔ GEFs (Guanine Nucleotide Exchange Factors)
- ➔ GAPs (GTPase Activation Proteins)
- ➔ GTPase Cycle Effectors
- ➔ GTPase Modifying Enzymes
- ➔ GPCRs (G-Protein Coupled Receptors)
- ➔ Importins

## Phosphoinositide 3-kinase (PI3K)

- ➔ PI3K
- ➔ PI3K
- ➔ PI3K
- ➔ PI3K
- ➔ Adaptor Proteins
- ➔ Substrates
- ➔ Inhibitors
- ➔ Antibodies

## Tyrosine Kinases

- ➔ Abl, Hck, Lck, Src, PDGFR, Raf

## Serine/Threonine Kinases

- ➔ MEK, MKK

## Protein Kinase A, B and C

- ➔ Protein Kinase A
- ➔ Akt/ PKB
- ➔ PKC- $\alpha$ , PKC- $\beta$ , PKC- $\gamma$ , PKC- $\delta$ , PKC- $\epsilon$
- ➔ Inhibitors
- ➔ Antibodies
- ➔ Substrates

## Other Related Proteins:

- ➔ Calcium/ Calmodulin-dependent kinases
- ➔ Cyclin dependent Kinases
- ➔ Phosphatase
- ➔ Transcription Factors

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