Anti-ALK2
Rabbit Polyclonal Antibody

Catalog # A06-63R
Lot # O2121-13

Cited Applications
WB, ELISA

Ideal working dilutions for each application should be empirically determined by the investigator.

Specificity
Recognizes the ALK2 protein

Cross Reactivity
Human and Mouse

Host/Isotype/Clone#
Rabbit, IgG

Immunogen
ALK2 antibody was raised against a 14 amino acid synthetic peptide near the amino terminus of the human ALK2

Formulation
PBS + 0.02% sodium azide

Stability
1yr at –20°C from date of shipment

Scientific Background
ALK2 is a receptor serine/threonine kinase that is member of the ALK family and is upstream of signaling pathway involving the SMAD proteins especially SMAD1/5/8. Knockdown of ALK2, but not TGFβRI (ALK5), abrogates endoglin-mediated decrease in cell motility of prostate cancer cells and constitutively active ALK2 is sufficient to restore a low-motility phenotype in endoglin deficient cells (1). Therefore, endoglin decreases prostate cancer cell motility through activation of the ALK2-Smad1 pathway. ALK2 is the key gene involved in Fibrodysplasia ossificans progressiva (FOP), a rare autosomal dominant congenital disorder characterized by progressive heterotopic bone formation in muscle tissues (2).

References