everest
an Absolute Biotech Company

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EB05336 - Goat Anti-Sak / STK18 / PLK4 Antibody
Size: $100 \mu \mathrm{~g}$ specific antibody in $200 \mu \mathrm{l}$


## Target Protein

Principal Names: PLK4, Sak, polo-like kinase 4 (Drosophila), serine/threonine kinase 18, SAK, Snk Akin Kinase, polo-like kinase 4, protein-serine/threonine kinase, STK18, serine/threonine protein kinase SAK, MCCRP2, STK 18
Official Symbol: PLK4
Accession Number(s): NP_055079.3, NP_001177728.1
Human GeneID(s): 10733

## Immunogen

Peptide with sequence ATCIGEKIEDFKVGN, from the N Terminus of the protein sequence according to NP_055079.3, NP_001177728.1.

Please note the peptide is available for sale.

## Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied at $0.5 \mathrm{mg} / \mathrm{ml}$ in Tris saline, $0.02 \%$ sodium azide, pH 7.3 with $0.5 \%$ bovine serum albumin.
Aliquot and store at $-20^{\circ} \mathrm{C}$. Minimize freezing and thawing.

## Applications Tested

Peptide ELISA: antibody detection limit dilution 1:32000.
Western blot: Approx 110 kDa band observed in Human Colon lysates (calculated MW of 109kDa according to NP_055079.3). Recommended concentration: $1-3 \mu \mathrm{~g} / \mathrm{ml}$. Primary incubation was 1 hour.

Immunofluorescence: Strong expression of the protein seen in the cytoplasm of A431 and HeLa cells. Recommended concentration: $10 \mu \mathrm{~g} / \mathrm{ml}$.

Flow Cytometry: Flow cytometric analysis of HeLa cells. Recommended concentration: 10ug/ml.

## Species Reactivity

Tested: Human
Expected from sequence similarity: Human, Dog, Cow

## 50 kDa

37 kDa

25 kDa
20 kDa

15 kDa
EB05336 ( $2 \mu \mathrm{~g} / \mathrm{ml}$ ) staining of Human Colon lysate ( $35 \mu \mathrm{~g}$ protein in RIPA buffer). Detected by chemiluminescence.


EB05336 Immunofluorescence analysis of paraformaldehyde fixed A431 cells, permeabilized with $0.15 \%$ Triton. Primary incubation 1 hr ( $10 \mathrm{ug} / \mathrm{ml}$ ) followed by Alexa Fluor 488 secondary antibody ( $2 \mathrm{ug} / \mathrm{ml}$ ), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat $\operatorname{lgG}(10 \mathrm{ug} / \mathrm{ml})$ followed by Alexa Fluor 488 secondary antibody ( $2 \mathrm{ug} / \mathrm{ml}$ ).


EB05336 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with $0.15 \%$ Triton. Primary incubation 1 hr ( $10 \mathrm{ug} / \mathrm{ml}$ ) followed by Alexa Fluor 488 secondary antibody ( $2 \mathrm{ug} / \mathrm{ml}$ ), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat $\operatorname{lgG}(10 \mathrm{ug} / \mathrm{ml})$ followed by Alexa Fluor 488 secondary antibody ( $2 \mathrm{ug} / \mathrm{ml}$ ).


EB05336 Flow cytometric analysis of paraformaldehyde fixed HeLa cells (blue line), permeabilized with $0.5 \%$
Triton. Primary incubation $1 \mathrm{hr}(10 \mathrm{ug} / \mathrm{ml})$ followed by Alexa Fluor 488 secondary antibody ( $1 \mathrm{ug} / \mathrm{ml}$ ). lgG control: Unimmunized goat $\lg G$ (black line) followed by Alexa Fluor 488 secondary antibody.

