IMMUNOLOGICAL SCIENCES Product Data Sheet

ABP-0619 **Phospho- AMPK alpha1-S496 Polyclonal Antibody**

Size: 100 ug

Concentration: 1mg/ml

Source: Rabbit

Isotype: IgG

Purification method: Affinity purification

Cross-reactivity: Human

Immunogen: A phospho specific peptide corresponding to residues surrounding S496 of human Ampk Alpha 1.

Synonyms: PRKAA1; AMPK; AMPKa1; protein kinase AMP-activated catalytic subunit alpha 1

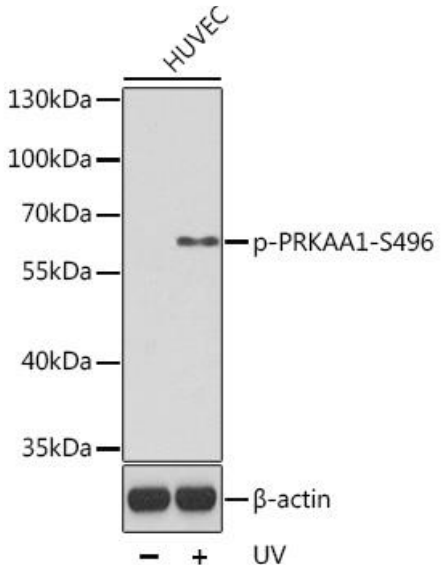
Background: The protein encoded by this gene belongs to the ser/thr protein kinase family. It is the catalytic subunit of the 5'-prime-AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the stimuli that increase the cellular AMP/ATP ratio. AMPK regulates the activities of a number of key metabolic enzymes through phosphorylation. It protects cells from stresses that cause ATP depletion by switching off ATPconsuming biosynthetic pathways. Alternatively spliced transcript variants encoding distinct isoforms have been observed.

Observed MW: 64kDa

Applications:

Western Blot:	1:500 - 1:1000
Immunohistochemistry:	1:50 - 1:100
Immunofluorescence:	1:50 - 1:100

Storage: Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.



Western blot analysis of extracts of Untreated and treated HUVEC cell lines, using Phospho-Ampka1-S496 Antibody.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% BSA..