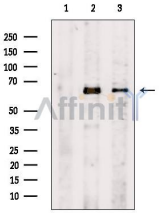
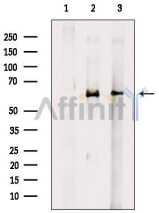
Phospho-AMPK alpha 1 (Ser486) Antibody

Cat.#: AF3422	Concn.: 1mg/ml	Mol.Wt.: 62kDa, 70 kDa
Size: 100ul,200ul	Source: Rabbit	Clonality: Polyclonal

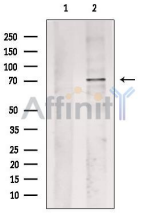
Application:	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Reactivity:	Human,Mouse,Rat
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Specificity:	Phospho-AMPK alpha 1 (Ser486) Antibody detects endogenous levels of AMPK alpha 1 only when phosphorylated at Ser486(Isoform 1).
Immunogen:	A synthesized peptide derived from human AMPK alpha 1 around the phosphorylation site of Ser486.
Uniprot:	Q13131
Description:	AMPKA1 a protein kinase of the CAMKL family that plays a central role in regulating cellular and organismal energy balance in response to the balance between AMP/ATP, and intracellular Ca(2+) levels.
Storage Condition and Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt.



Western blot analysis of extracts from various samples, using Phospho-AMPK1 (Ser486) Antibody.
Lane 1: Rat lung, blocked with antigen-specific peptides,
Lane 2: Rat lung,
Lane 3: B16F10 cells.

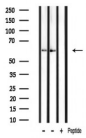


Western blot analysis of extracts from various samples, using Phospho-AMPK1 (Ser486) Antibody.
Lane 1: H2O2 treated EC304 cells, blocked with antigen-specific peptides,
Lane 2: H2O2 treated EC304 cells,
Lane 3: UV treated NIH-3T3 cells.

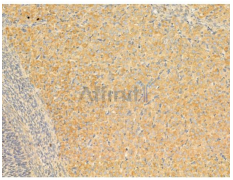


Western blot analysis of extracts from Mouse testis, using Phospho-AMPK1 (Ser486) Antibody. The lane on the left was treated with blocking peptide.

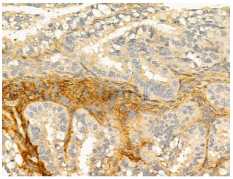
Observed bands: 70 kDa.



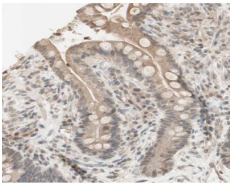
Western blot analysis of extracts from various samples, using Phospho-AMPK1 (Ser486) Antibody.
Lane 1: Rat spleen lysates;
Lane 2: Rat liver lysates;
Lane 3: Rat liver lysates treated with blocking peptide;



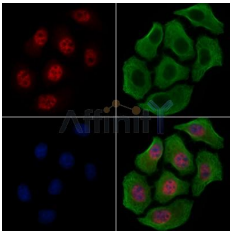
AF3422 at 1/100 staining Rat ovary tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



AF3422 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



AF3422 at 1/200 staining human colon cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



AF3422 staining HepG2 cells(4h of LPS treatment) by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AF3422 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.

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