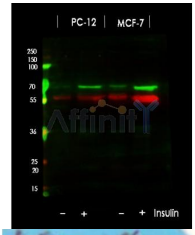
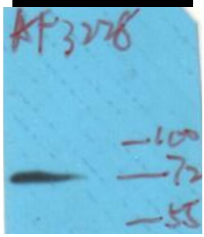
Phospho-p70 S6 Kinase (Thr389/412) Ab

Cat.#: AF3228	Concn.: 1mg/ml	Mol.Wt.: 70kDa
Size: 100ul,200ul	Source: Rabbit	Clonality: Polyclonal

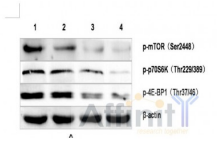
Application:	WB 1:500-1:2000 IHC 1:50-1:200 IF/ICC 1:100-1:500
Reactivity:	Human,Mouse,Rat,Pig
Purification:	The Ab is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Specificity:	Phospho-p70 S6 Kinase (Thr389/412) Ab detects endogenous levels of p70 S6 Kinase only when phosphorylated at Threonine 389/412.
Immunogen:	A synthesized peptide derived from human p70 S6 Kinase around the phosphorylation site of Threonine 389/412.
Uniprot:	P23443
Description:	This gene encodes a member of the RSK (ribosomal S6 kinase) family of serine/threonine kinases. This kinase contains 2 non-identical kinase catalytic domains and phosphorylates several residues of the S6 ribosomal protein.
Subcellular Location:	Cytoplasm; Nucleus. Cytoplasm and Cell junction > synapse > synaptosome. Mitochondrion outer membrane.
Tissue Specificity:	Widely expressed.
Similarity:	The autoinhibitory domain is believed to block phosphorylation within the AGC-kinase C-terminal domain and the activation loop.The TOS (TOR signaling) motif is essential for activation by mTORC1.Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. S6 kinase subfamily.
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.



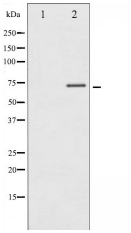
Western blot analysis of Phospho-p70 S6 Kinase (Thr389/412) using various lysates Lanes 1 - 2: Merged signal (red and green). Green - AF3228 observed at 70 kDa. Red - loading control, T0023, observed at 55 kDa. Blots were developed with Goat Anti-Rabbit IgG(H+L) FITC–conjugated (S0008) and Goat Anti-Mouse IgG(H+L) Alexa Fluor 594–conjugated (S0005) secondary antibodies



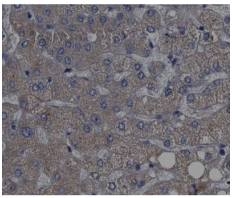
Western blot analysis of p70 S6 Kinase phosphorylation expression in Insulin treated Hela whole cell lysates,The lane on the right is treated with the antigen-specific peptide.



This image is a courtesy of anonymous review.

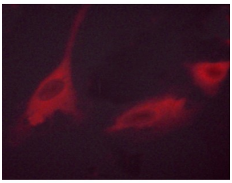


Western blot analysis of p70 S6 Kinase phosphorylation expression in Insulin treated Jurkat whole cell lysates,The lane on the left is treated with the antigen-specific peptide.



AF3228 at 1/200 staining human liver 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 Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.

AF3228 staining NIH-3T3 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary Ab was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary Ab.



AF3228 staining 293 cells by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37°C. The primary Ab was diluted 1/400 and incubated with the sample for 1 hour at 37°C. A Alexa Fluor 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary Ab.

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.