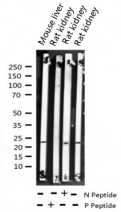
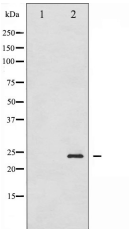
Phospho-Caveolin-1 (Tyr14) Ab

Cat.#: AF3386	Concn.: 1mg/ml	Mol.Wt.: 23kDa
Size: 100ul,200ul	Source: Rabbit	Clonality: Polyclonal

Application:	WB 1:500-1:2000, IF/ICC 1:100-1:500
Reactivity:	Human,Mouse,Rat
Purification:	The Ab is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Specificity:	Phospho-Caveolin-1 (Tyr14) Ab detects endogenous levels of Caveolin-1 only when phosphorylated at Tyrosine 14.
Immunogen:	A synthesized peptide derived from human Caveolin-1 around the phosphorylation site of Tyrosine 14.
Uniprot:	Q03135
Description:	caveolin-1 May act as a scaffolding protein within caveolar membranes. Interacts directly with G-protein alpha subunits and can functionally regulate their activity. Involved in the costimulatory signal essential for T-cell receptor (TCR)-mediated T-cell activation.
Subcellular Location:	Golgi apparatus membrane. Cell membrane. Membrane > caveola. Membrane raft. Colocalized with DPP4 in membrane rafts. Potential hairpin-like structure in the membrane. Membrane protein of caveolae.
Tissue Specificity:	Skeletal muscle, liver, stomach, lung, kidney and heart (at protein level). Expressed in the brain.
Similarity:	Belongs to the caveolin family.
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-Caveolin-1 (Tyr14) expression in various lysates



Western blot analysis of Caveolin-1 phosphorylation expression in H2O2 treated NIH-3T3 whole cell lysates,The lane on the left is treated with the antigen-specific peptide.

AF3386 staining HuvEc cells 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(Cat.# S0006), diluted at 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.