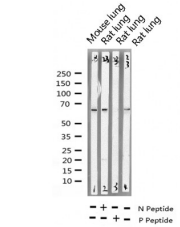
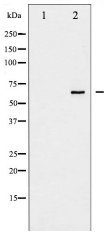
Phospho-SHP-1 (Tyr536) Ab

Cat.#: AF3244	Concn.: 1mg/ml	Mol.Wt.: 67kDa
Size: 100ul,200ul	Source: Rabbit	Clonality: Polyclonal

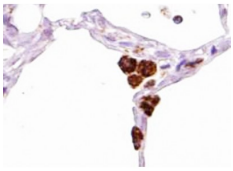
Application:	WB 1:500-1:2000 IHC 1:50-1:200, IF/ICC 1:100-1:500
Reactivity:	Human,Mouse,Rat
Purification:	The Ab is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Specificity:	Phospho-SHP-1 (Tyr536) Ab detects endogenous levels of SHP-1 only when phosphorylated at Tyrosine 536.
Immunogen:	A synthesized peptide derived from human SHP-1 around the phosphorylation site of Tyrosine 536.
Uniprot:	P29350
Description:	The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation.
Subcellular Location:	Cytoplasm. Nucleus. In neurons, translocates into the nucleus after treatment with angiotensin II.
Tissue Specificity:	Isoform 1 is expressed in hematopoietic cells. Isoform 2 is expressed in non-hematopoietic cells.
Similarity:	The N-terminal SH2 domain functions as an auto-inhibitory domain, blocking the catalytic domain in the ligand-free close conformation.Belongs to the protein-tyrosine phosphatase family. Non-receptor class 2 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-SHP-1 (Tyr536) expression in various lysates



Western blot analysis of SHP-1 phosphorylation expression in EGF treated RAW264.7 whole cell lysates,The lane on the left is treated with the antigen-specific peptide.



AF3244 at 1/100 staining human bone 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.

AF3244 staining RAW264.7 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.

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.