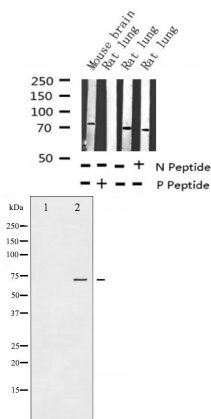

Phospho-SHP-2 (Tyr542) Ab

Cat.#: AF3412
Size: 100ul,200ul

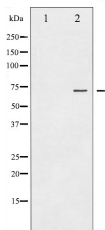
Concn.: 1mg/ml
Source: Rabbit

Mol.Wt.: 70kDa
Clonality: Polyclonal

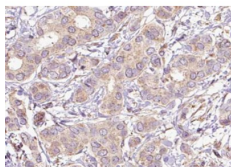
Application:	WB 1:500-1:2000 IHC 1:50-1:200, IF/ICC 1:100-1:500
Reactivity:	Human,Mouse,Rat
Purification:	The Ab is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Specificity:	Phospho-SHP-2 (Tyr542) Ab detects endogenous levels of SHP-2 only when phosphorylated at Tyrosine 542.
Immunogen:	A synthesized peptide derived from human SHP-2 around the phosphorylation site of Tyrosine 542.
Uniprot:	Q06124
Description:	SHP-2 a SH2-containing a ubiquitously expressed tyrosine-specific protein phosphatase. It participates in signaling events downstream of receptors for growth factors, cytokines, hormones, antigens and extracellular matrices in the control of cell growth, differentiation, migration, and death.
Subcellular Location:	Cytoplasm.
Tissue Specificity:	Widely expressed, with highest levels in heart, brain, and skeletal muscle.
Similarity:	The SH2 domains repress phosphatase activity. Binding of these domains to phosphotyrosine-containing proteins relieves this auto-inhibition, possibly by inducing a conformational change in the enzyme.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-2 (Tyr542) expression in various lysates



Western blot analysis of SHP-2 phosphorylation expression in A431 whole cell lysates. The lane on the left is treated with the antigen-specific peptide.



AF3412 at 1/100 staining human Breast carcinoma 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.



AF3412 staining A431 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.

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.

For Research Use Only. Not for use in diagnostic and therapeutic procedures. Not for resale without express authorization.