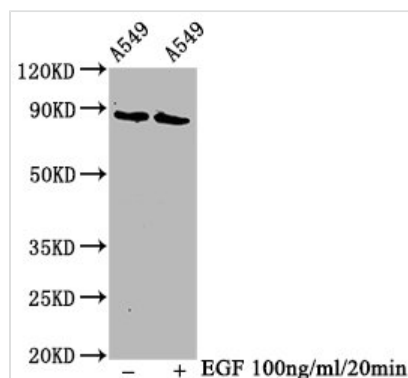




Phospho-BRAF (T401) Recombinant Monoclonal Antibody

Product Code	CSB-RA002791A401phHU
Abbreviation	Serine/threonine-protein kinase B-raf
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P15056
Immunogen	A synthesized peptide derived from Human Phospho-BRAF (T401)
Species Reactivity	Human
Tested Applications	ELISA, WB, IF; Recommended dilution: WB:1:500-1:5000, IF:1:20-1:200
Relevance	Protein kinase involved in the transduction of mitogenic signals from the cell membrane to the nucleus. May play a role in the postsynaptic responses of hippocampal neuron. Phosphorylates MAP2K1, and thereby contributes to the MAP kinase signal transduction pathway.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Alias	Serine/threonine-protein kinase B-raf, Proto-oncogene B-Raf, p94, v-Raf murine sarcoma viral oncogene homolog B1, BRAF, BRAF1, RAFB1
Immunogen Species	Homo sapiens (Human)
Research Area	Cell Biology
Gene Names	BRAF
Clone No.	4B9

Image



Western Blot

Positive WB detected in A549 whole cell lysate(treated with EGF or not)

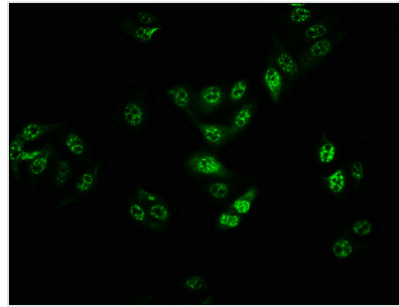
All lanes Phospho-BRAF antibody at 1.3μg/ml

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 85 KDa

Observed band size: 85 KDa



Immunofluorescence staining of HepG2 cells with CSB-RA002791A401pH1U at 1:100, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).

Description

CUSABIO designed the vector clones for the expression of a recombinant BRAF antibody in mammalian cells. The vector clones were obtained by inserting the BRAF antibody heavy and light chains into the plasma vectors. The recombinant BRAF antibody was purified from the culture medium through affinity-chromatography. It can be used to detect BRAF protein from Human in the ELISA, WB, IF.

Anti-phospho-specific T401 BRAF antibody can recognize the BRAF protein phosphorylated at T401 residue. BRAF is a core component of the RAS-RAF-MEK-ERK signaling cascade that is involved in the control of various cell activities including cell proliferation, survival, differentiation, and migration. Phosphorylation of BRAF at T401 by activated ERK contributes to the RAF dimerization. Studies have shown that the calcineurin target residue on BRAF is T401, a site of negative feedback phosphorylation by ERK1/2. Phosphorylated BRAF at T401 and S419 residues are somatically mutated in tumors.