

Datasheet for ABIN6255230
anti-RAF1 antibody (pSer338)[Go to Product page](#)

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Overview

Quantity:	100 µL
Target:	RAF1
Binding Specificity:	pSer338
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RAF1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human C-RAF around the phosphorylation site of Ser338.
Isotype:	IgG
Specificity:	Phospho-C-RAF (Ser338) Antibody detects endogenous levels of C-RAF only when phosphorylated at Serine 338.
Predicted Reactivity:	Pig,Bovine,Sheep,Rabbit,Dog,Chicken,Xenopus
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.

Target Details

Target:	RAF1
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Target Details

Alternative Name: RAF1 ([RAF1 Products](#))

Background: Description: Serine/threonine-protein kinase that acts as a regulatory link between the membrane-associated Ras GTPases and the MAPK/ERK cascade, and this critical regulatory link functions as a switch determining cell fate decisions including proliferation, differentiation, apoptosis, survival and oncogenic transformation. RAF1 activation initiates a mitogen-activated protein kinase (MAPK) cascade that comprises a sequential phosphorylation of the dual-specific MAPK kinases (MAP2K1/MEK1 and MAP2K2/MEK2) and the extracellular signal-regulated kinases (MAPK3/ERK1 and MAPK1/ERK2). The phosphorylated form of RAF1 (on residues Ser-338 and Ser-339, by PAK1) phosphorylates BAD/Bcl2-antagonist of cell death at 'Ser-75'. Phosphorylates adenylyl cyclases: ADCY2, ADCY5 and ADCY6, resulting in their activation. Phosphorylates PPP1R12A resulting in inhibition of the phosphatase activity. Phosphorylates TNNT2/cardiac muscle troponin T. Can promote NF- κ B activation and inhibit signal transducers involved in motility (ROCK2), apoptosis (MAP3K5/ASK1 and STK3/MST2), proliferation and angiogenesis (RB1). Can protect cells from apoptosis also by translocating to the mitochondria where it binds BCL2 and displaces BAD/Bcl2-antagonist of cell death. Regulates Rho signaling and migration, and is required for normal wound healing. Plays a role in the oncogenic transformation of epithelial cells via repression of the TJ protein, occludin (OCLN) by inducing the up-regulation of a transcriptional repressor SNAI2/SLUG, which induces down-regulation of OCLN. Restricts caspase activation in response to selected stimuli, notably Fas stimulation, pathogen-mediated macrophage apoptosis, and erythroid differentiation.

Gene: RAF1

Molecular Weight: 74kDa

Gene ID: 5894

UniProt: [P04049](#)

Pathways: [MAPK Signaling](#), [RTK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [cAMP Metabolic Process](#), [Stem Cell Maintenance](#), [Hepatitis C](#), [Autophagy](#), [Signaling of Hepatocyte Growth Factor Receptor](#), [VEGF Signaling](#), [BCR Signaling](#)

Application Details

Application Notes: WB 1:500-1:2000, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000

Restrictions: For Research Use only

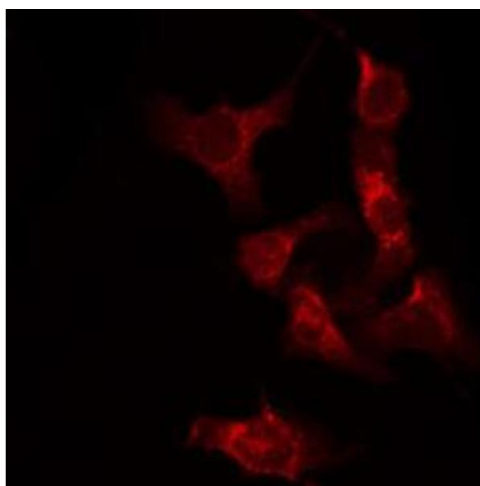
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Publications

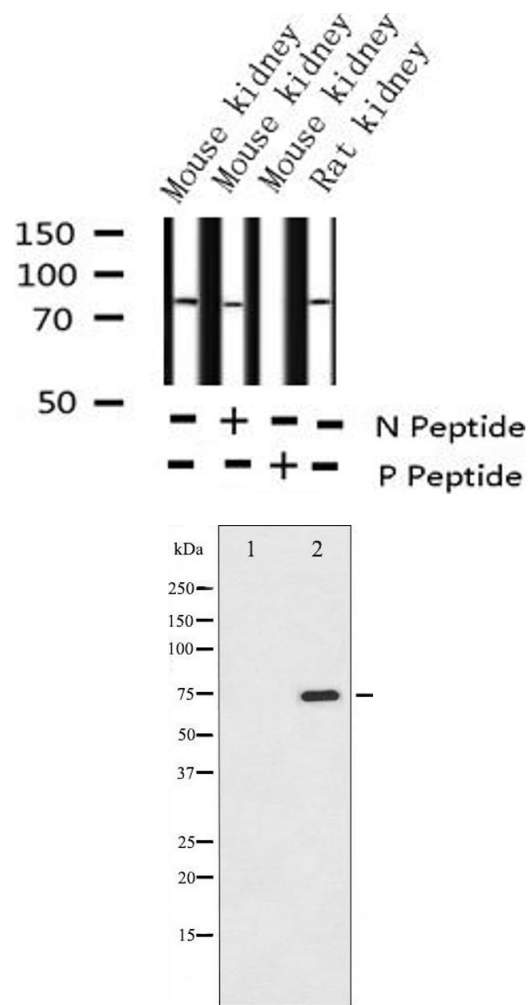
- Product cited in:
- Wu, Zhu, Yin, Kang, Cao, Tian, Zhang, Lu, Liu: "Traditional Chinese Medicine CFF-1 induced cell growth inhibition, autophagy, and apoptosis via inhibiting EGFR-related pathways in prostate cancer." in: **Cancer medicine**, Vol. 7, Issue 4, pp. 1546-1559, (2018) ([PubMed](#)).
- Wu, Zhu, Zhang, Yin, Kang, Cao, Tian, Lu, Liu: "EGFR-associated pathways involved in traditional Chinese medicine (TCM)-1-induced cell growth inhibition, autophagy and apoptosis in prostate cancer." in: **Molecular medicine reports**, Vol. 17, Issue 6, pp. 7875-7885, (2018) ([PubMed](#)).

Images



Immunofluorescence (fixed cells)

Image 1. ABIN6267282 staining HeLa 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 antibody 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 antibody.



Western Blotting

Image 2. Western blot analysis of Phospho-C-RAF (Ser338) expression in various lysates

Western Blotting

Image 3. Western blot analysis of C-RAF phosphorylation expression in PMA treated NIH-3T3 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.