Anti-Raf1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R013759

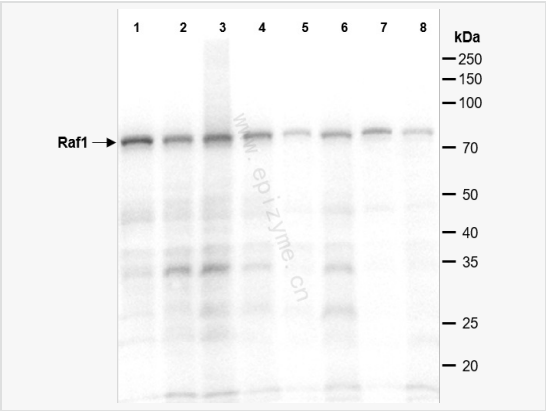
Product Information

Application	ELISA, WB, IF (Cell)/ICC
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	25K73K58
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Raf1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Raf1 Rabbit mAb [40H36A91] is for research use only and not for use in diagnostic or therapeutic procedures.

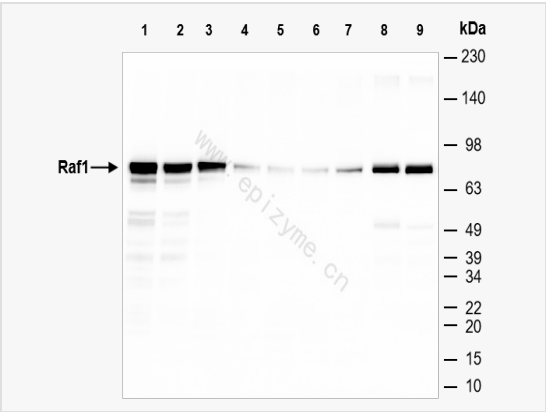
Protein Information

Synonyms	c Raf, C-raf, C-Raf proto-oncogene, serine/threonine kinase, CMD1NN, Craf 1 transforming gene, cRaf, Craf1 transforming gene, EC 2.7.11.1, kinase Raf1, Murine sarcoma 3611 oncogene 1, NS5, Oncogene MIL, Oncogene RAF1, OTTHUMP00000160218, OTTHUMP00000207813, OTTHUMP00000209389, Protein kinase raf 1, Proto-oncogene c-RAF, Raf 1, Raf 1 proto oncogene serine/threonine kinase, RAF, Raf proto oncogene serine/threonine protein kinase, RAF proto-oncogene serine/threonine-protein kinase, RAF-1, RAF1, RAF1_HUMAN, Similar to murine leukemia viral (V-raf-1) oncogene homolog 1, TRANSFORMING REPLICATION-DEFECTIVE MURINE RETROVIRUS 3611-MSV, v raf 1 murine leukemia viral oncogene homolog 1, v-raf murine sarcoma viral oncogene homolog 1, v-raf-1 murine leukemia viral oncogene-like protein 1, vraf1 murine leukemia viral oncogene homolog 1.
Calculated MW	Calculated MW: 74 kDa; Observed MW: 74 kDa
Uniprot ID	P04049
Gene ID	5894
Background	Raf-1 is a MAP kinase kinase kinase (MAP3K) which functions downstream of the Ras family of membrane associated GTPases to which it binds directly. Once activated Raf-1 can phosphorylate to activate the dual specificity protein kinases MEK1 and MEK2 which in turn phosphorylate to activate the serine/threonine specific protein kinases ERK1 and ERK2.
Cellular Location	Cytoplasm. Cell membrane. Colocalizes with RGS14 and BRAF in both the cytoplasm and membranes.
Tissue Location	In skeletal muscle, isoform 1 is more abundant than isoform 2.

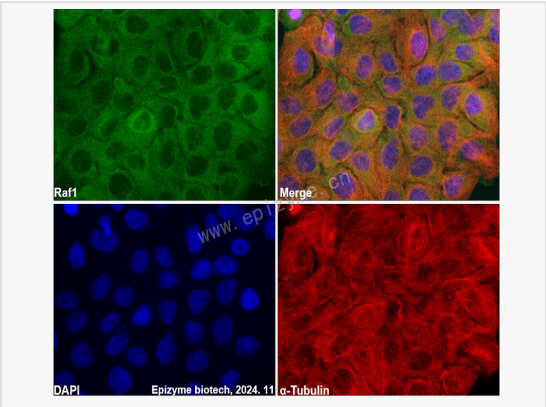
Validation Images



Western Blot - Anti-Raf1 Rabbit mAb [30H45D01]
All lanes: R013759 at 1:2,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: Jurkat (Human T lymphocytic leukemia cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: SCC-9 (Human tongue squamous carcinoma epithelial cell) whole cell lysates
Lane 5: U2OS (Human osteosarcoma epithelial cell) whole cell lysates
Lane 6: SW620 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 7: 293T (Human embryonic kidney cell) whole cell lysates
Lane 8: HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 74 kDa
Observed band size: 74 kDa
Developed using the ECL technique (Cat. No. SQ201).



Western Blot - Anti-Raf1 Rabbit mAb [30H45D01]
All lanes: R013759 at 1:2,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 5: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lane 6: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 7: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane 8: Rat brain whole tissue lysates
Lane 9: Rat heart whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 74 kDa
Observed band size: 74 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-Raf1 Rabbit mAb [30H45D01]
Sample: A431 cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R013759 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).