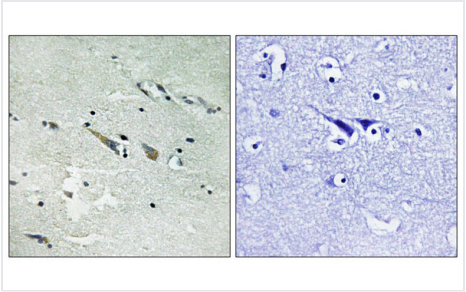
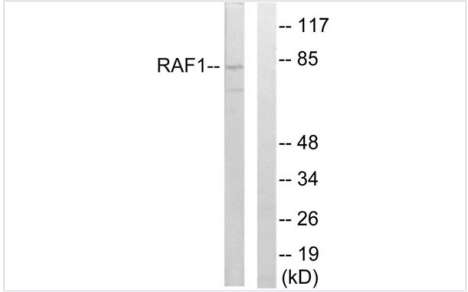
cRAF Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	cRAF, Polyclonal Antibody
Full Product Name	cRAF antibody
Product Gene Name	anti-cRAF antibody
Product Synonym Names	Polyclonal cRAF; Anti-cRAF; RAF1; v-raf-1 murine leukemia viral oncogene homolog 1; BOS_21199; c-mil; c-Raf; CRAF; Craf1; Craf1 transforming; MIL proto-oncogene serine/threonine-protein kinase; murine leukemia viral (v-raf-1) oncogene homolog 1; murine leukemia viral (v-raf-1) oncogene homolog 1 (3611-MSV); murine sarcoma 3611 oncogene 1; NS5; Oncogene RAF1; proto-oncogene c-RAF; RAF-1; Raf kinase; effector of Ras; raf proto-oncogene serine/threonine kinase; RAF proto-oncogene serine/threonine-protein kinase; sarcoma 3611 oncogene; serine/threonine kinase; serine/threonine kinase RAF1; v-Raf; v-raf-1 leukemia viral oncogene 1; v-raf-leukemia viral oncogene 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Form/Format	Supplied in PBS buffer (without Mg2+and Ca2+), pH 7.4, 150mM NaCl with 0.02% sodium azide and 50% glycerol
Concentration	1 mg/ml (lot specific)
Specificity	cRAF antibody detects endogenous levels of total CRAF protein
Preparation and Storage	Store at -20 degree C for 1 year, store at 2-8 degree C for up to 1 month
Molecular Weight	75,151 Da
Cross-Reactivity	Mouse, Rat
Immunogen	cRAF antibody was raised in Rabbit using a synthetic non-phosphopeptide derived from human C-RAF around the phosphorylation site of serine 189 (S-A-SP-P-S) as the immunogen
Product Categories/Family for anti-cRAF antibody	Cancer; Purified Polyclonal Antibodies
Applications Tested/Suitable for anti-cRAF antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-cRAF antibody	WB: 1:500-1:1000 IHC: 1:50-1:100 ELISA: 1:1000
Related Product Information for anti-cRAF antibody	MBS5302858 is an antibody targeting cRAF. Also known as cRAF antibody. Host: Rabbit. Rabbit polyclonal cRAF antibody
Other Notes	Small volumes of anti-cRAF antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Immunohistochemistry (IHC) of anti-cRAF antibody
Immunohistochemistry analysis of paraffin-embedded human brain tissue using C-RAF antibody.



Western Blot (WB) of anti-cRAF antibody
Western blot analysis of extracts from rat liver, using C-RAF antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for cRAF. It may not necessarily be applicable to this product.

NCBI GI #	18150196
NCBI GeneID	110157
NCBI Accession #	BAB83675.1
UniProt Secondary Accession #	Q3UR68; Q58E75; Q91WH1; Q99N58; Q9QUU8
UniProt Related Accession #	Q99N57
NCBI Official Full Name	cRAF, partial
NCBI Official Synonym Full Names	v-raf-leukemia viral oncogene 1
NCBI Official Symbol	Raf1
NCBI Official Synonym Symbols	Craf1; Raf-1; c-Raf; v-Raf; AA990557; BB129353; 6430402F14Rik; D830050J10Rik
UniProt Protein Name	RAF proto-oncogene serine/threonine-protein kinase
UniProt Synonym Protein Names	Proto-oncogene c-RAF; cRaf; Raf-1
UniProt Gene Name	Raf1
UniProt Synonym Gene Names	Craf; cRaf
UniProt Entry Name	RAF1_MOUSE
NCBI Protein Information	RAF proto-oncogene serine/threonine-protein kinase

UniProt Comments for cRAF	RAF1: a proto-oncogenic TKL kinase of the RAF family. Functions downstream of the Ras family of membrane associated GTPases to which it binds directly. Once activated Raf-1 can phosphorylate and activate MEK1/2, which in turn phosphorylate and activate ERK1/2. 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 (MEK1/2) and the extracellular signal-regulated kinases (ERK1/2). RAF1, subsequent to phosphorylation by PAK1, phosphorylates BAD (Bcl2-antagonist of cell death) at S75. 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-kB activation and inhibit signal transducers involved in motility (ROCK2), apoptosis (ASK1 and MST2), proliferation and angiogenesis (RB1). Can protect cells from apoptosis also by translocating to the mitochondria where it binds BCL2 and displaces BAD. Restricts caspase activation in response to selected stimuli, notably Fas stimulation, pathogen-mediated macrophage apoptosis, and erythroid differentiation. Protein type: Oncoprotein; Protein kinase, TKL; EC 2.7.11.1; Protein kinase, Ser/Thr (non-receptor); Kinase, protein; TKL group; RAF family Cellular Component: Golgi apparatus; membrane; mitochondrion; cytoplasm; plasma membrane; pseudopodium; nucleus; cytosol Molecular Function: identical protein binding; mitogen-activated protein kinase kinase binding; metal ion binding; nucleotide binding; protein kinase activity; transferase activity; protein serine/threonine kinase activity; protein binding; Ras GTPase binding; MAP kinase kinase kinase activity; protein heterodimerization activity; receptor signaling protein activity; transferase activity, transferring phosphorus-containing groups; kinase activity; ATP binding Biological Process: nerve growth factor receptor signaling pathway; activation of MAPKK activity; somatic stem cell maintenance; MAPKKK cascade; intermediate filament cytoskeleton organization and biogenesis; signal transduction; protein amino acid phosphorylation; positive regulation of peptidyl-serine phosphorylation; negative regulation of cell proliferation; response to hypoxia; cell glucose homeostasis; positive regulation of transcription from RNA polymerase II promoter; positive regulation of protein amino acid phosphorylation; cell differentiation; negative regulation of protein complex assembly; phosphorylation; negative regulation of apoptosis
Research Articles on cRAF	**1.** under normal physiological conditions, PTEN suppresses AKT activity to maintain activation of the RAF1/ERK signaling pathway, which in turn maintains normal function of the initial segment and therefore, normal sperm maturation.
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