C-Raf Proto Oncogene Serine/Threonine Protein Kinase (CRAF) ELISA Kit for Duck

PRODUCT OVERVIEW

Product Name	C-Raf Proto Oncogene Serine/Threonine Protein Kinase (CRAF), ELISA Kit
Full Product Name	Duck C-Raf Proto Oncogene Serine/Threonine Protein Kinase ELISA Kit
Product Gene Name	CRAF elisa kit
Species Reactivity	Duck
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	72,917 Da
3D Structure	ModBase 3D Structure for Q99N57
Related Product Information for CRAF elisa kit	MBS053643 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the C-Raf Proto Oncogene Serine/Threonine Protein Kinase (CRAF) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CRAF. The ELISA analytical biochemical technique of the MBS053643 kit is based on CRAF antibody-CRAF antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CRAF antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CRAF. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of CRAF elisa kit 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.

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 Primary Accession #	Q99N57
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
Protein Family	RAF proto-oncogene serine/threonine-protein kinase
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; cRaf; Craf1 transforming; proto-oncogene c-RAF; sarcoma 3611 oncogene; murine sarcoma 3611 oncogene 1; v-raf-1 leukemia viral oncogene 1
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: Kinase, protein; Protein kinase, Ser/Thr (non-receptor); Protein kinase, TKL; Oncoprotein; EC 2.7.11.1; TKL group; RAF family Cellular Component: Golgi apparatus; membrane; mitochondrion; cytoplasm; plasma membrane; pseudopodium; nucleus; cytosol Molecular Function: transferase activity; identical protein binding; protein serine/threonine kinase activity; protein binding; Ras GTPase binding; MAP kinase kinase kinase activity; mitogen-activated protein kinase kinase binding; protein heterodimerization activity; metal ion binding; receptor signaling protein activity; transferase activity, transferring phosphorus-containing groups; nucleotide binding; kinase activity; ATP binding; protein kinase activity Biological Process: activation of MAPKK activity; nerve growth factor receptor signaling pathway; 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; phosphorylation; negative regulation of protein complex assembly; negative regulation of apoptosis
Research Articles on CRAF	**1.** PHLPP is a negative regulator of RAF1, which reduces colorectal cancer cell motility and prevents tumor progression in mice.
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