

Human RAF Proto-Oncogene Serine/Threonine-Protein Kinase (RAF1) ELISA Kit | RAF1 elisa kit

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CATALOG # AAA331165	REACTIVITY Human
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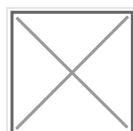
PRODUCT SYNONYMS

RAF Proto-Oncogene Serine/Threonine-Protein Kinase (RAF1); Human RAF Proto-Oncogene Serine/Threonine-Protein Kinase (RAF1) ELISA Kit; RAF1; CRAF; NS5; Raf-1; c-Raf; Oncogene RAF1; raf proto-oncogene serine/threonine protein kinase; RAF1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human RAF proto-oncogene serine/threonine-protein kinase (RAF1) ELISA Kit has high sensitivity and excellent specificity for detection of Human RAF1. No significant cross-reactivity or interference between Human RAF1 and analogues was observed.
Sequence Length	648
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human RAF proto-oncogene serine/threonine-protein kinase (RAF1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for RAF1 elisa kit	Description: This Human RAF proto-oncogene serine/threonine-protein kinase (RAF1) ELISA Kit employs a two-site sandwich ELISA to quantitate RAF1 in samples. An antibody specific for RAF1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any RAF1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for RAF1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of RAF1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: RAF proto-oncogene serine/threonine-protein kinase (RAF1) is the cellular homolog of viral raf gene (v-raf). The encoded protein 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, the cellular RAF1 protein 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. Activated ERKs are pleiotropic effectors of cell physiology and play an important role in the control of gene expression involved in the cell division cycle, apoptosis, cell differentiation and cell migration. Mutations in RAF1 are associated with Noonan syndrome 5 and LEOPARD syndrome 2.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4506401
NCBI GeneID	5894
NCBI Accession #	NP_002871.1
NCBI GenBank Nucleotide #	NP_002871.1
UniProt Accession #	P04049
NCBI Official Full Name	RAF proto-oncogene serine/threonine-protein kinase isoform b
NCBI Official Synonym Full Names	Raf-1 proto-oncogene, serine/threonine kinase
NCBI Official Symbol	RAF1
NCBI Official Synonym Symbols	NS5; CRAF; Raf-1; c-Raf; CMD1NN
NCBI Protein Information	RAF proto-oncogene serine/threonine-protein kinase
UniProt Protein Name	RAF proto-oncogene serine/threonine-protein kinase
UniProt Gene Name	RAF1
UniProt Synonym Gene Names	RAF; cRaf
UniProt Entry Name	RAF1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.