HRAS/KRAS/NRAS (Human) Cell-Based ELISA Kit

Catalog # KA5626 Size 1 Kit

Specification

Product Description	HRAS/KRAS/NRAS (Human) Cell-Based ELISA Kit is an indirect enzyme-linked immunoassay for qualitative determination of HRAS/KRAS/NRAS expression in cultured cells.
Suitable Sample	Adherent cells, Suspension cells and Loosely attached cells
Label	HRP-conjugated
Detection Method	Colorimetric
Assay Type	Qualitative
Reactivity	Human
Regulatory Status	For research use only (RUO)
Storage Instruction	Store the kit at 4°C.

Applications

- Qualitative

Gene Info — HRAS

Entrez GeneID	3265
Gene Name	HRAS
Gene Alias	C-BAS/HAS, C-H-RAS, C-HA-RAS1, CTLO, H-RASIDX, HAMSV, HRAS1, K-RAS, N-RAS, RASH1
Gene Description	v-Ha-ras Harvey rat sarcoma viral oncogene homolog
Omim ID	109800 188470 190020 218040

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Gene Ontology	Hyperlink
Gene Summary	This gene belongs to the Ras oncogene family, whose members are related to the transforming g enes of mammalian sarcoma retroviruses. The products encoded by these genes function in sign al transduction pathways. These proteins can bind GTP and GDP, and they have intrinsic GTPase activity. This protein undergoes a continuous cycle of de- and re-palmitoylation, which regulates it s rapid exchange between the plasma membrane and the Golgi apparatus. Mutations in this gene cause Costello syndrome, a disease characterized by increased growth at the prenatal stage, gro wth deficiency at the postnatal stage, predisposition to tumor formation, mental retardation, skin a nd musculoskeletal abnormalities, distinctive facial appearance and cardiovascular abnormalities . Defects in this gene are implicated in a variety of cancers, including bladder cancer, follicular thy roid cancer, and oral squamous cell carcinoma. Multiple transcript variants, which encode differen t isoforms, have been identified for this gene. [provided by RefSeq
Other Designations	GTP- and GDP-binding peptide B|GTPase HRas|Ha-Ras1 proto-oncoprotein|OTTHUMP000001 62769|OTTHUMP00000166053|OTTHUMP00000166055|Ras family small GTP binding protein H-Ras|c-has/bas p21 protein|c-ras-Ki-2 activated oncogene|p19 H-RasIDX protein|transformatio

Gene Info — KRAS

Entrez GeneID	3845
Gene Name	KRAS
Gene Alias	C-K-RAS, K-RAS2A, K-RAS2B, K-RAS4A, K-RAS4B, KI-RAS, KRAS1, KRAS2, NS3, RASK2
Gene Description	v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog
Omim ID	109800 114480 137215 190070 211980 218040 260350 609942
Gene Ontology	Hyperlink
Gene Summary	This gene, a Kirsten ras oncogene homolog from the mammalian ras gene family, encodes a prot ein that is a member of the small GTPase superfamily. A single amino acid substitution is respon sible for an activating mutation. The transforming protein that results is implicated in various malig nancies, including lung adenocarcinoma, mucinous adenoma, ductal carcinoma of the pancreas a nd colorectal carcinoma. Alternative splicing leads to variants encoding two isoforms that differ in the C-terminal region. [provided by RefSeq
Other Designations	K-ras p21 protein|Kirsten rat sarcoma-2 viral (v-Ki-ras2) oncogene homolog|PR310 c-K-ras onco gene|c-K-ras2 protein|c-Kirsten-ras protein|cellular c-Ki-ras2 proto-oncogene|oncogene KRAS2|tr ansforming protein p21|v-Ki-ras2 Kirsten rat sarcoma 2 viral oncoge

Gene Info — NRAS

Entrez GeneID	4893
Gene Name	NRAS

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Gene Alias	ALPS4, N-ras, NRAS1
Gene Description	neuroblastoma RAS viral (v-ras) oncogene homolog
Omim ID	114500 164790 188470
Gene Ontology	Hyperlink
Gene Summary	This is an N-ras oncogene encoding a membrane protein that shuttles between the Golgi apparat us and the plasma membrane. This shuttling is regulated through palmitoylation and depalmitoylat ion by the ZDHHC9-GOLGA7 complex. The encoded protein, which has intrinsic GTPase activity, is activated to a GTP-bound form by a GTPase activating protein and inactivated to a GDP-boun d form by a guanine nucleotide-exchange factor. Defects in this gene are a cause of juvenile myel omonocytic leukemia (JMML). [provided by RefSeq
Other Designations	N-ras protein part 4|OTTHUMP00000013879|v-ras neuroblastoma RAS viral oncogene homolog

Pathway

- Acute myeloid leukemia
- Acute myeloid leukemia
- Acute myeloid leukemia
- Axon guidance
- Axon guidance
- Axon guidance
- B cell receptor signaling pathway
- B cell receptor signaling pathway
- B cell receptor signaling pathway
- Bladder cancer
- Bladder cancer
- Bladder cancer
- Chemokine signaling pathway
- Chemokine signaling pathway
- Chemokine signaling pathway

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- Chronic myeloid leukemia
- Chronic myeloid leukemia
- Chronic myeloid leukemia
- Colorectal cancer
- Dorso-ventral axis formation
- Endocytosis
- Endometrial cancer
- Endometrial cancer
- Endometrial cancer
- ErbB signaling pathway
- ErbB signaling pathway
- ErbB signaling pathway
- Fc epsilon RI signaling pathway
- Fc epsilon RI signaling pathway
- Fc epsilon RI signaling pathway
- Focal adhesion
- Gap junction
- Gap junction
- Gap junction
- Glioma
- Glioma
- Glioma
- GnRH signaling pathway
- GnRH signaling pathway
- GnRH signaling pathway
- Insulin signaling pathway

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- Insulin signaling pathway
- Insulin signaling pathway
- Long-term depression
- Long-term depression
- Long-term depression
- Long-term potentiation
- Long-term potentiation
- Long-term potentiation
- MAPK signaling pathway
- MAPK signaling pathway
- MAPK signaling pathway
- Melanogenesis
- Melanogenesis
- Melanogenesis
- Melanoma
- Melanoma
- Melanoma
- Natural killer cell mediated cytotoxicity
- Natural killer cell mediated cytotoxicity
- Natural killer cell mediated cytotoxicity
- Neurotrophin signaling pathway
- Neurotrophin signaling pathway
- Neurotrophin signaling pathway
- Non-small cell lung cancer
- Non-small cell lung cancer
- Non-small cell lung cancer

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- Pancreatic cancer
- Pathways in cancer
- Pathways in cancer
- Pathways in cancer
- Prostate cancer
- Prostate cancer
- Prostate cancer
- Regulation of actin cytoskeleton
- Regulation of actin cytoskeleton
- Regulation of actin cytoskeleton
- Renal cell carcinoma
- Renal cell carcinoma
- Renal cell carcinoma
- T cell receptor signaling pathway
- T cell receptor signaling pathway
- T cell receptor signaling pathway
- Thyroid cancer
- Thyroid cancer
- Thyroid cancer
- Tight junction
- Tight junction
- Tight junction
- VEGF signaling pathway
- VEGF signaling pathway
- VEGF signaling pathway

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Disease

- Abnormalities
- Acute Disease
- Acute Disease
- Adenocarcinoma
- Adenocarcinoma
- Adenocarcinoma
- Adenoma
- Adenoma
- Adenoma
- Adenomatous Polyposis Coli
- Alcoholism
- Anus Neoplasms
- Astrocytoma
- Biliary Tract Neoplasms
- Blast Crisis
- Brain Neoplasms
- Breast cancer
- Breast cancer
- Breast Neoplasms
- Breast Neoplasms
- Calcinosis
- Carcinoma
- Carcinoma
- Carcinoma
- Cardiomyopathy

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- Cardiovascular Diseases
- Cell Transformation
- Cholangiocarcinoma
- Chromosomal Instability
- Chromosome Aberrations
- Chromosome Deletion
- Chromosome Deletion
- Chronic Disease
- Cocarcinogenesis
- Cognition Disorders
- Cognition Disorders
- Colitis
- Colon cancer
- Colon cancer
- Colonic Neoplasms
- Colonic Polyps
- Colorectal Neoplasms
- Colorectal Neoplasms
- Colorectal Neoplasms
- Common Bile Duct Neoplasms
- Common Bile Duct Neoplasms
- Common Bile Duct Neoplasms
- Crohn Disease
- Cystadenocarcinoma
- Developmental Disabilities
- Developmental Disabilities

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- Diabetes Mellitus
- Diarrhea
- Dilatation
- Disease Progression
- Disease Progression
- Disease Progression
- Down Syndrome
- Drug Toxicity
- Edema
- Endometrial Hyperplasia
- Endometrial Neoplasms
- Endometriosis
- Eosinophilia
- Esophageal Neoplasms
- Exanthema
- Exocrine Pancreatic Insufficiency
- Gastritis
- Gastrointestinal Neoplasms
- Gastrointestinal Stromal Tumors
- Gastrointestinal Stromal Tumors
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Genomic Instability
- Glioblastoma
- Glioma

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- Glioma
- Head and Neck Neoplasms
- Heart Defects
- HIV Infections
- HIV Infections
- Hyperplasia
- Immunologic Deficiency Syndromes
- Inflammation
- Inflammatory Bowel Diseases
- Kidney Failure
- Kidney Neoplasms
- LEOPARD Syndrome
- Leukemia
- Leukemia
- Liver Neoplasms
- Lung Neoplasms
- Lung Neoplasms
- Lymphatic Metastasis
- Lymphatic Metastasis
- Lymphoma
- Malignant melanoma
- Melanoma
- Meningeal Neoplasms
- Meningioma
- Microsatellite Instability

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- Microsatellite Instability
- Mouth Neoplasms
- Mouth Neoplasms
- Multiple Myeloma
- Myelodysplastic Syndromes
- Myoma
- Nausea
- Necrosis
- Necrosis
- Necrosis
- Neoplasm Invasiveness
- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neoplasm Metastasis
- Neoplasm Metastasis
- Neoplasm Recurrence
- Neoplasm Recurrence
- Neoplasm Recurrence
- Neoplasms
- Neoplasms
- Nerve Sheath Neoplasms
- Neurofibromatosis
- Neurofibromatosis
- Neurofibromatosis 1
- Neutropenia
- Nevus

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- Noonan Syndrome
- Obesity
- Oligodendroglioma
- Ovarian cancer
- Ovarian cancer
- Ovarian Failure
- Ovarian Neoplasms
- Ovarian Neoplasms
- Pancreatic cancer
- Pancreatic cancer
- Pancreatic cancer
- Pancreatic Neoplasms
- Pancreatic Neoplasms
- Pancreatic Neoplasms
- Pancreatitis
- Pancreatitis
- Papillomavirus Infections
- Paraproteinemias
- Peritoneal Neoplasms
- Polycystic Ovary Syndrome
- Precancerous Conditions
- Prostatic Neoplasms
- Puberty
- Pulmonary Disease
- Pulmonary Disease
- Pulmonary Fibrosis

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- Pulmonary Valve Stenosis
- Purpura
- Ras oncogene
- Ras oncogene
- Ras oncogene
- Rectal Neoplasms
- Recurrence
- Retinal Neoplasms
- Retinoblastoma
- Rupture
- Sarcoma
- Sarcoma
- Sarcoma
- Skin Abnormalities
- Skin Neoplasms
- Stomach Neoplasms
- Stomach Neoplasms
- Syndrome
- Testicular Neoplasms
- Thrombophilia
- Thyroid Diseases
- Thyroid Diseases
- Thyroid Neoplasms
- Thyroid Neoplasms
- Thyroid Neoplasms
- Tobacco Use Disorder

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- Tobacco Use Disorder
- Tonsillar Neoplasms
- Urinary Bladder Neoplasms
- Urinary Bladder Neoplasms
- Urinary Bladder Neoplasms
- Uterine Neoplasms
- Werner syndrome

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