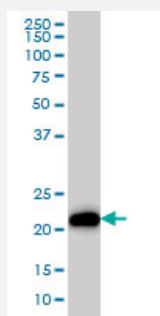


KRAS monoclonal antibody (M02A), clone 4F3

Catalog # H00003845-M02A

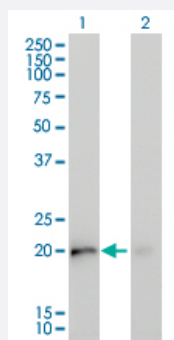
Size 200 uL

Applications



Western Blot (Cell lysate)

KRAS monoclonal antibody (M02A), clone 4F3 Western Blot analysis of KRAS expression in HeLa (Cat # L013V1).

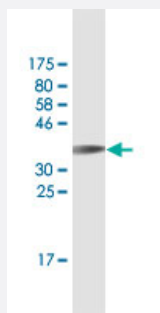


Western Blot (Transfected lysate)

Western Blot analysis of KRAS expression in transfected 293T cell line by KRAS monoclonal antibody (M02A), clone 4F3.

Lane 1: KRAS transfected lysate(21 KDa).

Lane 2: Non-transfected lysate.



Western Blot detection against Immunogen (37.84 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant KRAS.

Immunogen	KRAS (NP_004976, 16 a.a. ~ 125 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	KSALTIQLIQNHFVDEYDPTIEDSYRKQVVIDGETCLLDILDTAGQEEYSAMRDQYMRTGEGFLCVF AINNTKSFEDIHHYREQIKRVKDSDEVPMVLVGNKCDLPSRTV
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (100); Rat (100)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .
Storage Buffer	In ascites fluid
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

KRAS monoclonal antibody (M02A), clone 4F3 Western Blot analysis of KRAS expression in HeLa (Cat # L013V1).

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of KRAS expression in transfected 293T cell line by KRAS monoclonal antibody (M02A), clone 4F3.

Lane 1: KRAS transfected lysate(21 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

Gene Info — KRAS

Entrez GeneID	3845
GeneBank Accession#	NM_004985
Protein Accession#	NP_004976
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 protein that is a member of the small GTPase superfamily. A single amino acid substitution is responsible for an activating mutation. The transforming protein that results is implicated in various malignancies, including lung adenocarcinoma, mucinous adenoma, ductal carcinoma of the pancreas and 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 oncogene c-K-ras2 protein c-Kirsten-ras protein cellular c-Ki-ras2 proto-oncogene oncogene KRAS2 transforming protein p21 v-Ki-ras2 Kirsten rat sarcoma 2 viral oncogene

Publication Reference

- [Leveraging gene therapy to achieve long-term continuous or controllable expression of biotherapeutics.](#)

Timothy P Cripe, Brian Hutzen, Mark A Currier, Chun-Yu Chen, Andrea M Glaspell, Grace C Sullivan, Julia M Hurley, Mackenzie R Deighen, Akila S Venkataramany, Xiaokui Mo, Joseph R Stanek, Anthony R Miller, Saranga Wijeratne, Vincent Magrini, Elaine R Mardis, Jerry R Mendell, Dawn S Chandler, Pin-Yi Wang.

Science Advances 2022 Jul; 8(28):eabm1890.

Application: WB, Human, H441, HeLa, Hepatocytes, RH30 cells

Pathway

- [Acute myeloid leukemia](#)
- [Axon guidance](#)

- [B cell receptor signaling pathway](#)
- [Bladder cancer](#)
- [Chemokine signaling pathway](#)
- [Chronic myeloid leukemia](#)
- [Colorectal cancer](#)
- [Dorso-ventral axis formation](#)
- [Endometrial cancer](#)
- [ErbB signaling pathway](#)
- [Fc epsilon RI signaling pathway](#)
- [Gap junction](#)
- [Glioma](#)
- [GnRH signaling pathway](#)
- [Insulin signaling pathway](#)
- [Long-term depression](#)
- [Long-term potentiation](#)
- [MAPK signaling pathway](#)
- [Melanogenesis](#)
- [Melanoma](#)
- [Natural killer cell mediated cytotoxicity](#)
- [Neurotrophin signaling pathway](#)
- [Non-small cell lung cancer](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)
- [Regulation of actin cytoskeleton](#)
- [Renal cell carcinoma](#)

- [T cell receptor signaling pathway](#)
- [Thyroid cancer](#)
- [Tight junction](#)
- [VEGF signaling pathway](#)

Disease

- [Abnormalities](#)
- [Acute Disease](#)
- [Adenocarcinoma](#)
- [Adenoma](#)
- [Adenomatous Polyposis Coli](#)
- [Alcoholism](#)
- [Anus Neoplasms](#)
- [Biliary Tract Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiomyopathy](#)
- [Cell Transformation](#)
- [Cholangiocarcinoma](#)
- [Chromosomal Instability](#)
- [Chromosome Aberrations](#)
- [Chromosome Deletion](#)
- [Cognition Disorders](#)
- [Colitis](#)
- [Colon cancer](#)

- [Colonic Neoplasms](#)
- [Colonic Polyps](#)
- [Colorectal Neoplasms](#)
- [Common Bile Duct Neoplasms](#)
- [Crohn Disease](#)
- [Cystadenocarcinoma](#)
- [Developmental Disabilities](#)
- [Diarrhea](#)
- [Dilatation](#)
- [Disease Progression](#)
- [Down Syndrome](#)
- [Drug Toxicity](#)
- [Endometrial Hyperplasia](#)
- [Endometrial Neoplasms](#)
- [Endometriosis](#)
- [Eosinophilia](#)
- [Esophageal Neoplasms](#)
- [Exanthema](#)
- [Gastrointestinal Stromal Tumors](#)
- [Genetic Predisposition to Disease](#)
- [Genomic Instability](#)
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- [Head and Neck Neoplasms](#)
- [Heart Defects](#)
- [HIV Infections](#)

- [Hyperplasia](#)
- [Immunologic Deficiency Syndromes](#)
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- [Lymphoma](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
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- [Mouth Neoplasms](#)
- [Multiple Myeloma](#)
- [Myoma](#)
- [Nausea](#)
- [Necrosis](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Nerve Sheath Neoplasms](#)
- [Neurofibromatosis](#)

- [Neurofibromatosis 1](#)
- [Neutropenia](#)
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- [Ovarian cancer](#)
- [Ovarian Failure](#)
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- [Pancreatic Neoplasms](#)
- [Pancreatitis](#)
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- [Paraproteinemias](#)
- [Peritoneal Neoplasms](#)
- [Polycystic Ovary Syndrome](#)
- [Precancerous Conditions](#)
- [Prostatic Neoplasms](#)
- [Puberty](#)
- [Pulmonary Disease](#)
- [Pulmonary Valve Stenosis](#)
- [Ras oncogene](#)
- [Rectal Neoplasms](#)
- [Recurrence](#)
- [Retinal Neoplasms](#)
- [Retinoblastoma](#)
- [Sarcoma](#)
- [Skin Abnormalities](#)

- [Stomach Neoplasms](#)
- [Syndrome](#)
- [Testicular Neoplasms](#)
- [Thrombophilia](#)
- [Thyroid Diseases](#)
- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Tonsillar Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Neoplasms](#)
- [Werner syndrome](#)