OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for CF801672

KRAS Mouse Monoclonal Antibody [Clone ID: OTI2C1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2C1
Applications:	IHC, WB
Recommended Dilution:	IHC 1:100, WB 1:2000
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human KRAS (NP_203524) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	21.5 kDa
Gene Name:	KRAS proto-oncogene, GTPase
Database Link:	NP_203524 Entrez Gene 16653 MouseEntrez Gene 24525 RatEntrez Gene 3845 Human P01116

View online »

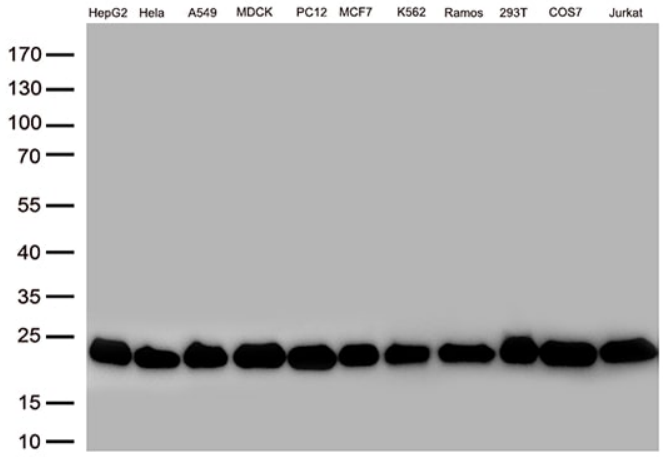
Background: This gene, a Kirsten ras oncogene homolog from the mammalian ras gene family, encodes a protein that is a member of the small GTPase superfamily. A single amino acid substitution is responsible for an activating mutation. The transforming protein that results is implicated in various malignancies, 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, Jul 2008]

Synonyms: C-K-RAS; c-Ki-ras2; CFC2; K-RAS2A; K-RAS2B; K-RAS4A; K-RAS4B; KI-RAS; KRAS1; KRAS2; NS; NS3; RALD

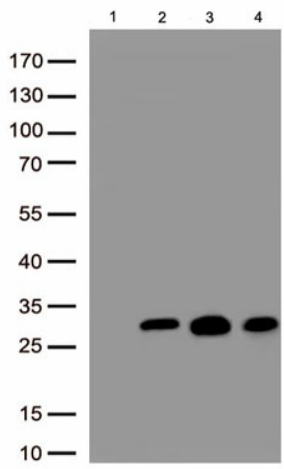
Protein Families: Druggable Genome

Protein Pathways: 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, Progesterone-mediated oocyte maturation, Prostate cancer, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway, Thyroid cancer, Tight junction, VEGF signaling pathway

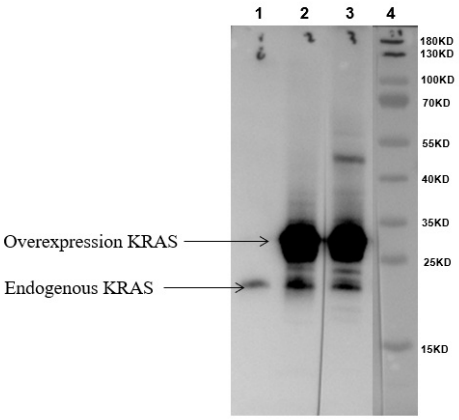
Product images:



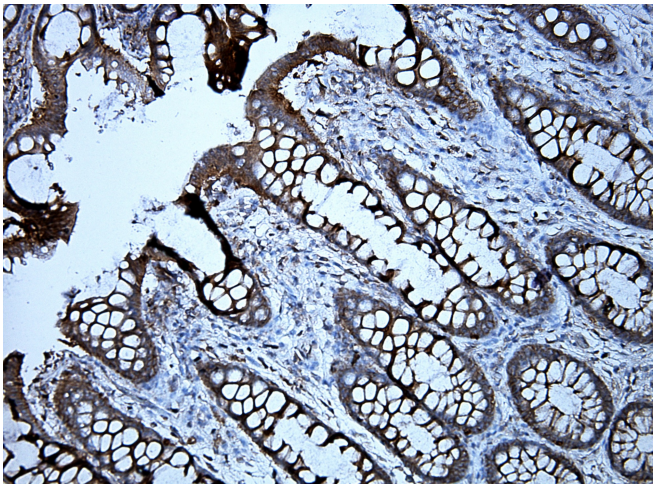
Western blot analysis of extracts (50ug per lane) from 11 cell lines lysates by using anti-KRAS monoclonal antibody([TA801672], 1:500)



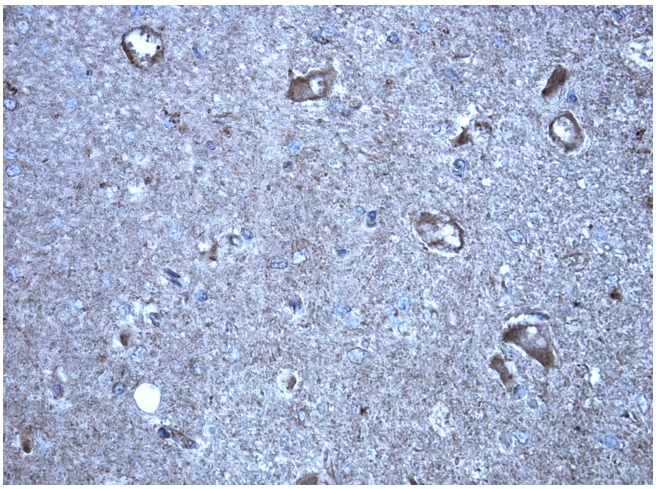
Western blot analysis of overexpressed lysates(15ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], lane 1) , human KRAS plasmid ([RC222697], lane 2), mouse KRAS plasmid ([MR201779], lane 3) , rat KRAS plasmid ([RR212693], lane 4)using anti-KRAS antibody [TA801672] (1:500).



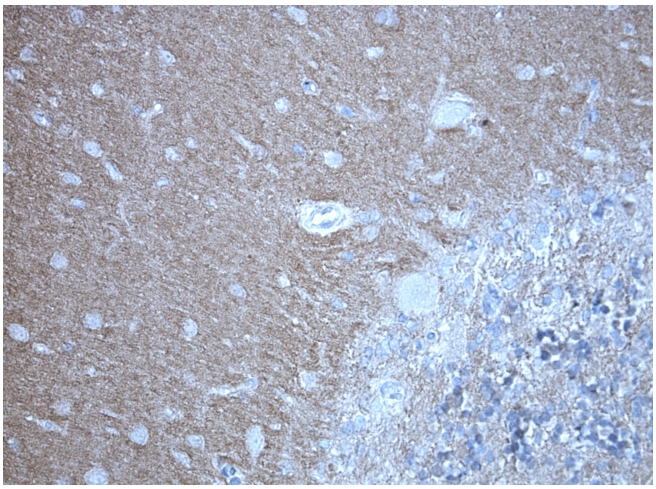
Western blot analysis of overexpressed lysates (25ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], lane 1) , human KRAS variant a plasmid ([RC222697], lane 2), human KRAS variant b plasmid ([RC201958], lane 3) using anti-KRAS antibody [TA801672] (1:500). DNA ladder (lane 4).



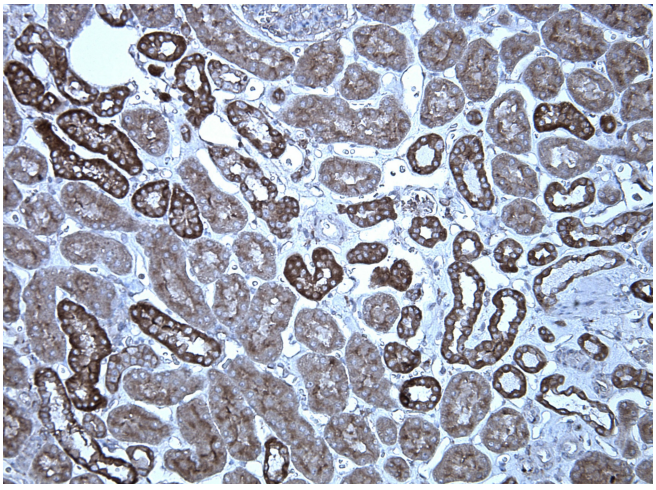
Immunohistochemical staining of paraffin-embedded human normal colon using anti-KRAS clone OTI2C1 mouse monoclonal antibody @ 1:100 with [D12-18] Polink1 anti-Ms HRP DAB detection kit. [TA801672] tissue screen used heat-induced epitope retrieval buffer ACCEL, pH8.7 in pressure cooker. Results show nuclear and cytoplasmic staining. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded human normal brain using anti-KRAS clone OTI2C1 mouse monoclonal antibody @ 1:100 with [D12-18] Polink1 anti-Ms HRP DAB detection kit. [TA801672] tissue screen used heat-induced epitope retrieval buffer ACCEL, pH8.7 in pressure cooker. Results show nuclear and cytoplasmic staining. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded human normal brain using anti-KRAS clone OTI2C1 mouse monoclonal antibody @ 1:100 with [D12-18] Polink1 anti-Ms HRP DAB detection kit. [TA801672] tissue screen used heat-induced epitope retrieval buffer ACCEL, pH8.7 in pressure cooker. Results show nuclear and cytoplasmic staining. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded human normal kidney using anti-KRAS clone OTI2C1 mouse monoclonal antibody @ 1:100 with [D12-18] Polink1 anti-Ms HRP DAB detection kit. [TA801672] tissue screen used heat-induced epitope retrieval buffer ACCEL, pH8.7 in pressure cooker. Results show mostly cytoplasmic staining. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.