

## Product datasheet for **TA801672AM**

### **KRAS Mouse Monoclonal Antibody (Biotin conjugated) [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:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Biotin
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:	<a href="#">NP_203524</a> <a href="#">Entrez Gene 16653 Mouse</a> <a href="#">Entrez Gene 24525 Rat</a> <a href="#">Entrez Gene 3845 Human</a> <a href="#">P01116</a>

**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]



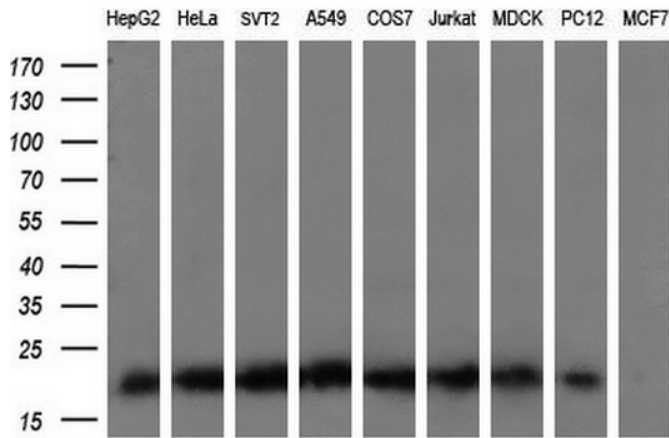
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**Synonyms:** C-K-RAS; c-Ki-ras2; CFC2; K-RAS2A; K-RAS2B; K-RAS4A; K-RAS4B; KI-RAS; KRAS1; KRAS2; NS; NS3; RALD

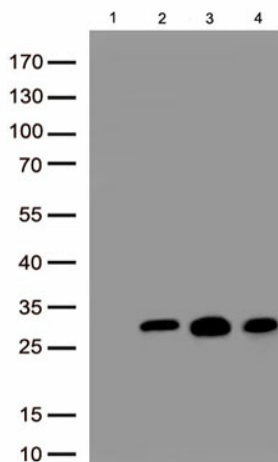
**Protein Families:** Druggable Genome

**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

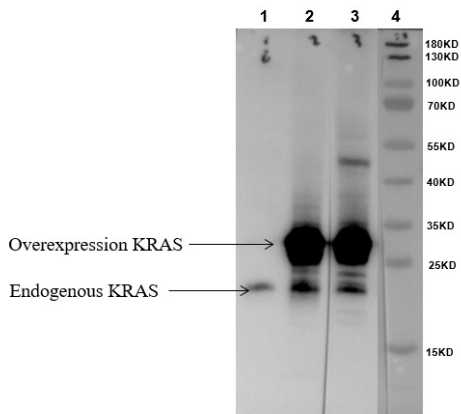
**Product images:**



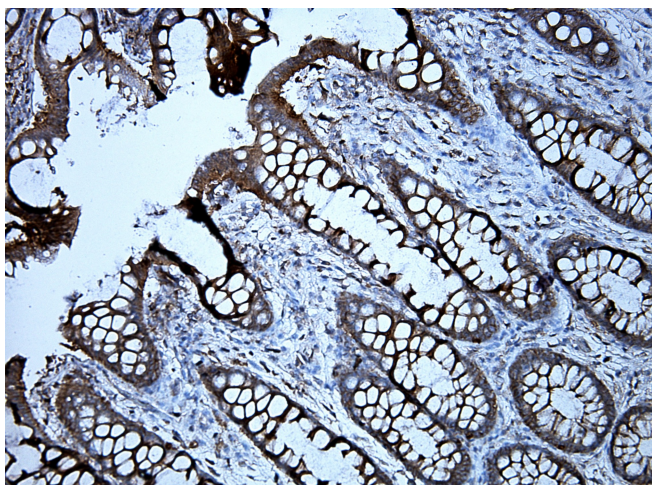
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-KRAS monoclonal antibody at 1:200 dilution. (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human)



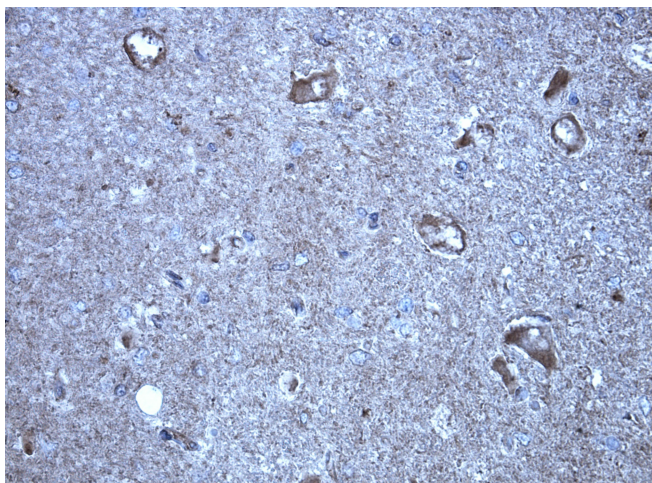
Western blot analysis of overexpressed lysates(15ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], lane 1) , human KRAS plasmid ([RC222697], lane 2), mouse KRAS plasmid ([MR201779], lane 3) , rat KRAS plasmid ([RR212693], lane 4)using anti-KRAS antibody [TA801672] (1:500).



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).

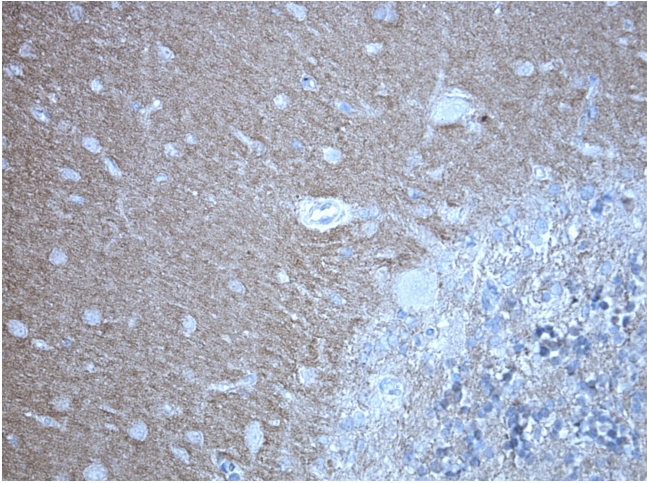


Immunohistochemical staining of paraffin-embedded human normal colon using anti-KRAS clone OT12C1 mouse monoclonal antibody @ 1:100 with [D12-18] Polink1 anti-Ms HRP DAB detection kit. [TA801672] tissue screen used heat-induced epitope retrieval buffer ACCEL, pH8.7 in pressure cooker. Results show nuclear and cytoplasmic staining.

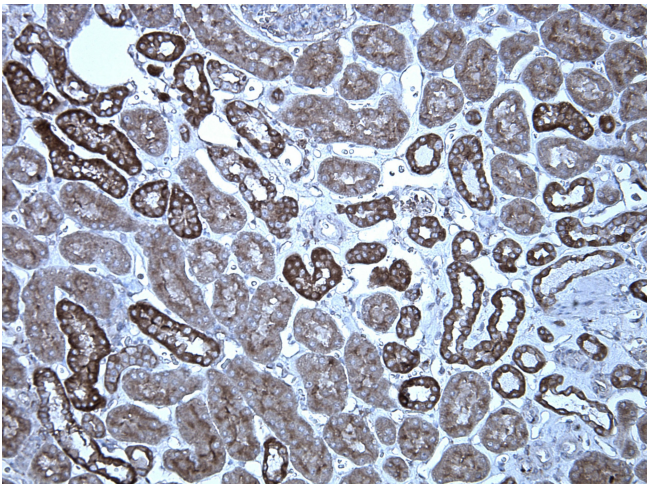


Immunohistochemical staining of paraffin-embedded human normal brain using anti-KRAS clone OT12C1 mouse monoclonal antibody @ 1:100 with [D12-18] Polink1 anti-Ms HRP DAB detection kit. [TA801672] tissue screen used heat-induced epitope retrieval buffer ACCEL, pH8.7 in pressure cooker. Results show nuclear and cytoplasmic staining.





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.



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.