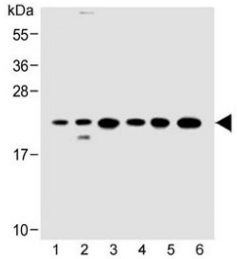
KRAS Antibody (F44713)

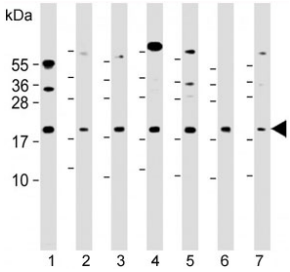
Catalog No.	Formulation	Size
F44713-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F44713-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P01116
Applications	Western Blot : 1:500-1:2000 Immunofluorescence : 1:10-1:50 Flow Cytometry : 1:10-1:50
Limitations	This KRAS antibody is available for research use only.

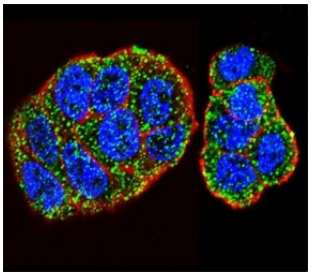


Western blot testing of 1) human HeLa, 2) human 293/T17, 3) mouse C2C12, 4) rat C6, 5) human HT-29 and 6) rat PC-12 cell lysate with KRAS antibody at 1:500. Expected molecular weight: 20-25 kDa.

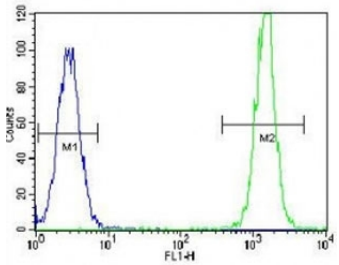


Western blot testing of 1) human 293T/17, 2) mouse C2C12, 3) human HeLa, 4) human HT-29, 5) human K562, 6) rat PC-12 and 7) human Ramos cell lysate with KRAS antibody at 1:2000. Expected molecular weight: 20-25 kDa.

KRAS antibody western blot analysis in mouse NIH3T3 lysate. Predicted molecular weight: 20-25 kDa.



Confocal immunofluorescent analysis of KRAS antibody with WiDr cells followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). Actin filaments have been labeled with Alexa Fluor 555 Phalloidin (red). DAPI was used as a nuclear counterstain (blue).



KRAS antibody flow cytometric analysis of HeLa cells (right histogram) compared to a negative control (left histogram). FITC-conjugated goat-anti-rabbit secondary Ab was used for the analysis.

Description

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.

Application Notes

Titration of the KRAS antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 146-174 from the human protein was used as the immunogen for this KRAS antibody.

Storage

Aliquot the KRAS antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.