

Anti-KRAS+HRAS+NRAS Rabbit Monoclonal Antibody

Catalog Number: M00099-1

About NRAS

Phosphoinositide-3-kinase (PI3K) that phosphorylates PtdIns (Phosphatidylinositol), PtdIns4P (Phosphatidylinositol 4-phosphate) and PtdIns (4,5) P2 (Phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP3) . PIP3 plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDPK1, activating signaling cascades involved in cell growth, survival, proliferation, motility and morphology. Participates in cellular signaling in response to various growth factors.

Overview

Product Name	Anti-KRAS+HRAS+NRAS Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-KRAS+HRAS+NRAS Rabbit Monoclonal Antibody catalog # M00099-1. Tested in WB, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IP, IF, ICC, WB
Clonality	Monoclonal EBE-14
Formulation	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P01111/P01112/P01116

Technical Details

Immunogen	A synthesized peptide derived from human KRAS+HRAS+NRAS
Isotype	Rabbit IgG
Form	Liquid
Concentration	Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Affinity-chromatography
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

WB 1:500-1:2000

ICC/IF 1:50-1:200

IP 1:50

FC 1:200

Anti-KRAS+HRAS+NRAS Rabbit Monoclonal Antibody (M00099-1) Images

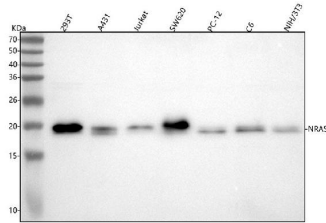
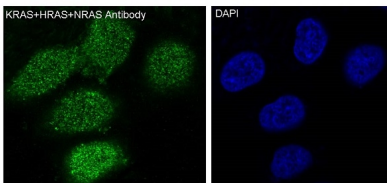


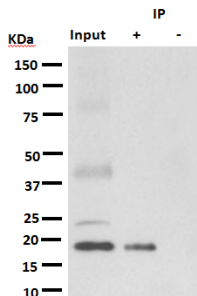
Figure 1. Western blot analysis of KRAS+HRAS+NRAS using anti-KRAS+HRAS+NRAS antibody (M00099-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human 293T whole cell lysates,
Lane 2: human A431 whole cell lysates,
Lane 3: human Jurkat whole cell lysates,
Lane 4: human SW620 whole cell lysates,
Lane 5: rat PC-12 whole cell lysates,
Lane 6: rat C6 whole cell lysates,
Lane 7: mouse NIH/3T3 whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-KRAS+HRAS+NRAS antigen affinity purified monoclonal antibody (Catalog # M00099-1) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for KRAS+HRAS+NRAS at approximately 21 kDa. The expected band size for KRAS+HRAS+NRAS is at 21 kDa.



Immunofluorescent analysis of HeLa cells, using KRAS+HRAS+NRAS Antibody.



KRAS+HRAS+NRAS was immunoprecipitated from 1mg of A549 whole cell lysate. A549 whole cell lysate 10ug (Input). The second antibody be without interference from denatured IgG.

1 Publications Citing This Product

1. PubMed ID: 17118848, Li M, Liu W, Zhu Yf, Chen Yl, Zhang Bz, Wang R. Acta Oncol. 2006;45(8):1115-9. Correlation Of Cox-2 And K-Ras Expression To Clinical Outcome In Gastric Cancer.

Visit bosterbio.com/anti-kras-hras-nras-rabbit-monoclonal-antibody-m00099-1-boster.html to see all 1 publications.

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