**N-Ras (F155): sc-31**

**BACKGROUND**
The mammalian Ras (also designated v-Ha-Ras, Harvey rat sarcoma viral oncogene homolog, HRAS1, K-Ras, N-Ras, RASH1 or c-bas/has) gene family consists of the Harvey and Kirsten Ras genes (c-H-Ras1 and c-K-Ras2), an inactive pseudogene of each (c-H-Ras2 and c-K-Ras1) and the N-Ras gene. The three Ras oncogenes, H-Ras, K-Ras and N-Ras, encode proteins with GTP/GDP binding and GTPase activity. Ras proteins alternate between an inactive form bound to GDP and an active form bound to GTP, activated by a guanine nucleotide-exchange factor (GEF) and inactivated by a GTPase-activating protein (GAP). Ras nomenclature originates from the characterization of human DNA sequences homologous to cloned DNA fragments containing oncogenic sequences of a type C mammalian retrovirus, the Harvey strain of murine sarcoma virus (HaMSV), derived from the rat. Under normal conditions, Ras family members influence cell growth and differentiation events in a subcellular membrane compartmentalization-based signaling system. Oncogenic Ras can deregulate processes that control both cell proliferation and apoptosis. The Ras superfamily of GTP hydrolysis-coupled signal transduction relay proteins can be subclassified into Ras, Rho, Rab and ARF families.

**CHROMOSOMAL LOCATION**
Genetic locus: NRAS (human) mapping to 1p13.2; Nras (mouse) mapping to 3 F2.2.

**SOURCE**
N-Ras (F155) is a mouse monoclonal antibody raised against recombinant N-Ras p21 of human origin.

**PRODUCT**
Each vial contains 100 µg IgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**
N-Ras (F155) is recommended for detection of N-Ras p21 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for N-Ras siRNA (h): sc-36004, N-Ras siRNA (m): sc-36005, N-Ras shRNA Plasmid (h): sc-36004-SH, N-Ras shRNA Plasmid (m): sc-36005-SH, N-Ras shRNA (h) Lentiviral Particles: sc-36004-V and N-Ras shRNA (m) Lentiviral Particles: sc-36005-V.

Molecular Weight of N-Ras: 21 kDa.

Positive Controls: N-Ras (m): 293T Lysate: sc-121908, A-431 whole cell lysate: sc-2201 or Jurkat whole cell lysate: sc-2204.

**STORAGE**
Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**
For research use only, not for use in diagnostic procedures.

**DATA**

**SELECT PRODUCT CITATIONS**

**CONJUGATES**
See pan Ras (C-4): sc-166691 for pan Ras antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor® 488, 546, 594, 647, 680 and 790.