
NRAS (Q61R)(Clone SP174)

Rabbit Monoclonal Antibody

Specificity: Human. Others-not known

Immunogen: Synthetic peptide of human NRAS protein containing NRAS (Q61R) point mutation

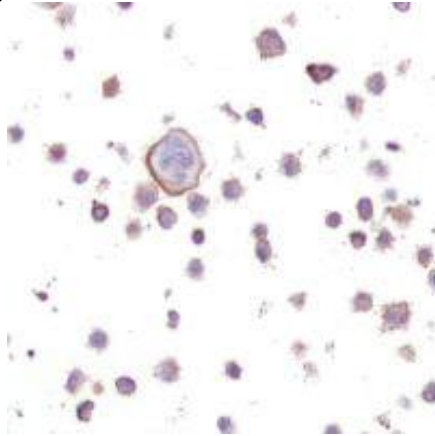
Ig Class: Rabbit IgG

Storage: Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

Staining procedures: Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution:* 1:50; *Positive Control:* Melanoma with NRAS mutation. *Cellular Localization:* Cytoplasmic. *Intended Use:* In vitro diagnosis (IVD).

Description: GTPase N-Ras or NRAS is a guanine-nucleotide binding protein. Receptor tyrosine kinases and G-protein-coupled receptors activate Ras, which then stimulates the MAPK signal pathway. Mutations in *NRAS*, *KRAS* and *HRAS* are known to be present on 20%, 2%, and 1% of all melanomas, respectively. With regards to *NRAS*, the most common oncogenic change (80-90% of all *NRAS* mutations) reported is replacement of arginine by glutamine at position 61 (*NRASQ61R*). Point mutations (Q61R) in *NRAS* prevent the GAP-mediated inhibition of the MAPK pathway in certain cancers such as lung carcinoma and melanoma. Abnormal MAPK signaling may lead to uncontrolled cell proliferation, resistance to both apoptosis and cancer therapy.

Supplied As: Purified antibody with 0.2% BSA and 15mM sodium azide.



Formalin-fixed, paraffin-embedded SK-MEL-2 cells stained with anti-NRAS (Q61R) antibody using peroxidase-conjugate and DAB chromogen. Note cytoplasmic staining of cultured cells

Cat. #Z2317 (1.0 ml)

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