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Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-p21Ras [DWP] Standard Size Ab03876-10.0

Isotype and Format: Human IgG1, Kappa

Clone Number: DWP

Alternative Name(s) of Target: p21; p21 ras protein; Ras; pan ras; KRAS G12V; K-Ras; GTPase Kras; KRAS2; RASK2; K-Ras 2; Ki-Ras; c-K-ras; c-Ki-ras; ras p21 protein; p21 ras; GTPase Hras; HRAS; H-RAS; HRAS; HRAS1; GTPase HRas; H-Ras-1; Ha-Ras; Transforming protein p21; c-H-ras; p21ras; N-RAS; NRAS; HRAS1; GTPase NRas; Transforming protein N-Ras; DWP-1-1-3

UniProt Accession Number of Target Protein: P01116; P01112; P01111

Published Application(s): WB, ELISA, IHC

Published Species Reactivity: Human

Immunogen: The original antibody was generated by immunizing mice with a synthetic peptide corresponding to amino acids 5-16 (KLVVVGAVGVGK) of a mutated RAS gene encoding Val instead of Gly at position 12 coupled to the carrier protein bovine thyroglobulin (BTG) and to keyhole limpet hemocyanin (KLH).

Specificity: This antibody recognizes human mutant H-, K-, and N-Ras proteins. This antibody may also react with other Ras mutants with a hydrophobic amino acid (V, A, C, H, I, L, M, Y, T, N, Q) at position 12 (PMID: 9440050). This ras protein binds GDP/GTP and possess intrinsic GTPase activity, that results in conversion of nucleotide guanosine triphosphate (GTP) into guanosine diphosphate (GDP). This protein plays an important role in many signal transduction pathways and regulation of cell proliferation. Somatic ras mutations are highly observed in leukemias, colorectal cancer, pancreatic cancer and lung cancer.

Application Notes: This antibody was capable of binding G12V and G12C mutant peptides of human ras protein in competition ELISAs (PMID: 3094010). It was reported to cross react with peptides containing amino acids V, A, C, H, I, L, M, Y, T, N, Q at position 12 in an ELISA (PMID: 9440050). This antibody could detect mutant KRAS proteins from cell lysates of human tumor cell lines in a western blot, but did not react with normal KRAS or other KRAS mutants. Immunohistochemical studies showed that DWP-labeled transformed NIH cells and human carcinoma cells contained p21ras is with either Val or Cys at position 12 but not normal or other activated KRAS protein (PMID: 3094010).

Antibody First Published in: Carney et al. Monoclonal antibody specific for an activated RAS protein. Proc Natl Acad Sci U S A. 1986 Oct;83(19):7485-9. [PMID:3094010](#)

Note on publication: This paper describes the generation and characterization of an antibody that recognizes mutated RAS protein.

Product Form

Size: 100 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.