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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-p21 protein [Y13-259] Bulk Size Ab03219-6.1-BT

Isotype and Format: Rat IgG1, Kappa

Clone Number: Y13-259

Alternative Name(s) of Target: p21 ras protein; Ras; p21ras

UniProt Accession Number of Target Protein: P78460; O70564

Published Application(s): IP, neutralizing, WB, IHC

Published Species Reactivity: Rat, Human, Mouse

Immunogen: The original antibody was generated by immunizing rats with Ha-MuSV-transformed NRK cells. Screening of sera of individual animals was carried out to identify those with the strongest immune response against p21. Splens were removed from the immunised animals and cell fusion of immune lymphocytes with rat myeloma cell line 210RCY3 Ag 1.2.3 (Y3) was carried out. Supernatants were harvested and assayed for antibodies to p21 by GDP binding assay or immunofluorescence on Ha-SV-transformed MDCK cells, followed by testing for the ability of the antibodies to immunoprecipitate p21.

Specificity: The antibody binds to an epitope common to all p21ras isoforms (Glu63-Arg73), a region known as loop 4. The antibody broadly reacts with ras proteins, including M-Ras and N-Ras.

Application Notes: The antibody was used in studies of p21ras signaling. The antibody, which recognizes ras p21 proteins specifically blocked the serum-induced mitogenic response of tissue culture cells. When the antibody was coinjected with purified ras protein into NIH 3T3 cells, it neutralized the coinjected ras protein (Mulcahy et al., 1985; PMID: 3918269). HASM, T24, SW480 and SK-N-SH cells were lysed and used for immunoprecipitation. In this procedure the protein was immunoprecipitated using this antibody. When HASM cells were microinjected with the antibody, it significantly inhibited EGF- and thrombin-induced cell proliferation (Ammit et al., 1999). The antibody detected the p21 protein by western blot analysis. Further, peptide competition was carried out to define the binding site of the antibody (Sigal et al., 1986; PMID: 2425352). This antibody was used for immunohistochemistry on human breast tissues (Agnantis et al. 1986).

Antibody First Published in: Furth et al. Monoclonal antibodies to the p21 products of the transforming gene of Harvey murine sarcoma virus and of the cellular ras gene family. *J Virol.* 1982 Jul;43(1):294-304.

[PMID:6287003](#)

Note on publication: Describes the generation of monoclonal antibodies to p21 encoded by Ha-MuSV.

Product Form

Size:

1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. 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.