

Rat anti-Human, Mouse p21 Antibody | anti-p21 antibody

Anti-p21 [Y13-238], Rat IgG2a

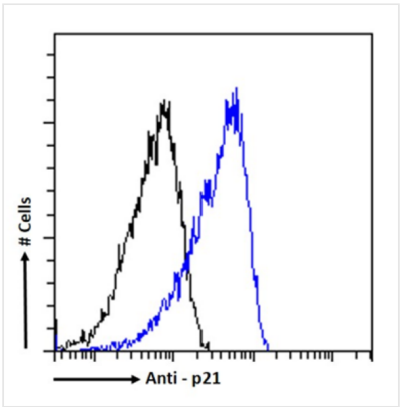
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72255	Rat	Human, Mouse	Immunoprecipitation

PRODUCT SYNONYMS

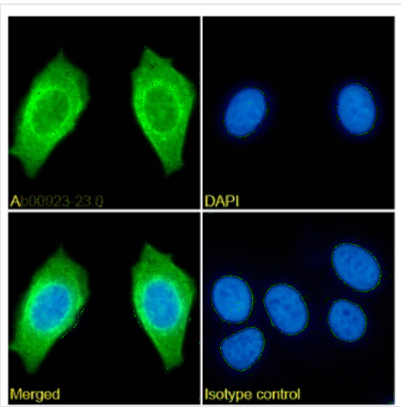
p21; Anti-p21 [Y13-238]; Rat IgG2a; Ras; p21ras; anti-p21 antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Human, Mouse
Isotype	Rat IgG2a, Lambda
Clone Number	Y13-238
Specificity	The antibody reacts with v-H-ras (within amino acids 120-138) and rodent c-H-ras p21?s but not v-K-ras or rodent c-K-ras p21?s. This antibody also recognizes human c-H-ras and c-K-ras p21?s, but not human c-N-ras.
Purity/Purification	Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-p21 antibody	IP (Immunoprecipitation)
Immunogen	Injection of rats subcutaneously with Ha-MuSV transformed NRK cells and screening of sera of individual animals to identify those with the strongest immune response against p21. Spleens 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.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



FCM/FACS (Flow Cytometry)
Flow cytometry using the Anti-p21 antibody Y13-238 (AAA72255). Paraformaldehyde fixed MCF7 cells permeabilized with 0.5% Triton were stained with anti-unknown specificity antibody or the rabbit IgG version of Y13-238 (AAA72255-23.0, blue line) at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.



IF (Immunofluorescence)
Immunofluorescence staining of MCF7 cells with anti-p21 (AAA72255) Y13-238. Immunofluorescence analysis of paraformaldehyde fixed MCF7 cells stained with the chimeric rabbit IgG version of Y13-238 (AAA72255-23.0) at 10 ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (2 ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom AAA72255-23.0, DAPI, merged channels and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor 488 secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-p21 antibody	Y13-238 has been used to immunoprecipitate p21 from human peripheral blood lymphoblasts in order to measure its activation state (Downward 1990). Y13-238 has been used as an anti-ras non-neutralising scFv (Cochet 1998).
Product Categories/Family for anti-p21 antibody	tumor marker; Cancer
References	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 JOURNAL OF VIROLOGY, July 1982, p. 294-304 PMID:6287003

NCBI AND UNIPROT INFORMATION

NCBI GI #	465130
NCBI GeneID	3265
UniProt Accession #	P78460; O70564; P01112
Molecular Weight	18,870 Da
NCBI Official Full Name	p21 protein, partial
NCBI Official Synonym Full Names	HRas proto-oncogene, GTPase
NCBI Official Symbol	HRAS
NCBI Official Synonym Symbols	CTLO; KRAS; HAMSV; HRAS1; KRAS2; RASH1; RASK2; Ki-Ras; p21ras; C-H-RAS; c-K-ras; H-RASIDX; c-Ki-ras; C-BAS/HAS; C-HA-RAS1
NCBI Protein Information	GTPase HRas
UniProt Protein Name	P21 protein
UniProt Gene Name	HRAS
UniProt Entry Name	P78460_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

