

Mouse p53 Antibody | anti-p53 antibody

Anti-p53 Biotin

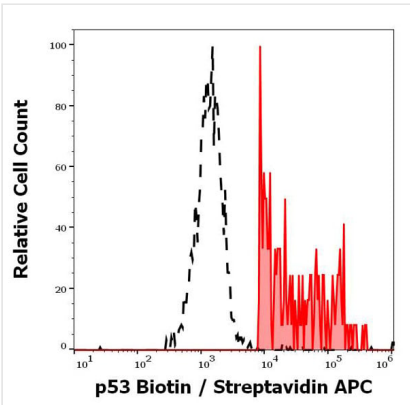
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA129324	Mouse	Human, Non-human primates	Immunoprecipitation, ELISA, Flow Cytometry, Functional Assay, Immunocytochemistry, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

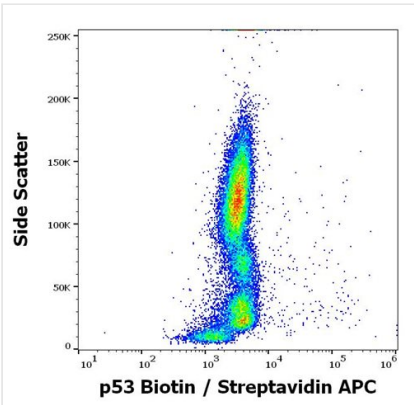
p53; Anti-p53 Biotin; tumor protein p53; BCC7; TRP53; TP53; LFS1; anti-p53 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Non-human primates
Isotype	Mouse IgG2a
Clone Number	BP53-12
Specificity	The antibody BP53-12 recognizes a defined epitope (aa 16-25) on human p53, a 50 kDa intracellular tumour suppressor found in increased amounts in a wide variety of transformed cells; it is frequently mutated or inactivated in many types of cancer.
Purity/Purification	Purified antibody is conjugated with biotin LC-NHS ester under optimum conditions and unconjugated antibody and free biotin are removed by size-exclusion chromatography.
Form/Format	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-p53 antibody	IP (Immunoprecipitation), ELISA, FCM/FACS (Flow Cytometry), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Bacterially expressed full-length wild-type p53
Conjugation	Biotin
Preparation and Storage	Store at 2-8 degree C. Do not freeze.



FCM/FACS (Flow Cytometry)
Separation of human p53 high positive leukocytes (red-filled) from blood debris (black-dashed) in flow cytometry analysis (intracellular staining) of human peripheral whole blood stained using anti-p53 (BP53-12) Biotin antibody (concentration in sample 1ug/ml, Streptavidin APC).



FCM/FACS (Flow Cytometry)
Flow cytometry intracellular staining pattern of human peripheral whole blood stained using anti-p53 (BP53-12) Biotin antibody (concentration in sample 1ug/ml, Streptavidin APC).

ADDITIONAL INFORMATION

Related Product Information for anti-p53 antibody	The tumour suppressor protein p53 is a key element of intracellular anticancer protection. It mediates cell cycle arrest or apoptosis in response to DNA damage or to starvation for pyrimidine nukleotides. It is up-regulated in response to these stress signals and stimulated to activate transcription of specific genes, resulting in expression of p21waf1 and other proteins involved in G1 or G2/M arrest, or proteins that trigger apoptosis, such as Bcl-2. The structure of p53 comprises N-terminal transactivation domain, central DNA-binding domain, oligomerisation domain, and C-terminal regulatory domain. There are various phosphorylation sites on p53, of which the phosphorylation at Ser15 is important for p53 activation and stabilization.
References	*Agarwal ML, Agarwal A, Taylor WR, Stark GR: p53 controls both the G2/M and the G1 cell cycle checkpoints and mediates reversible growth arrest in human fibroblasts. Proc Natl Acad Sci U S A. 1995 Aug 29;92(18):8493-7., URL: https://www.ncbi.nlm.nih.gov/pubmed/7667317 ordina,*Agarwal ML, Agarwal A, Taylor WR, Chernova O, Sharma Y, Stark GR: A p53-dependent S-phase checkpoint helps to protect cells from DNA damage in response to starvation for pyrimidine nucleotides. Proc Natl Acad Sci U S A. 1998 Dec 8;95(25):14775-80., URL: https://www.ncbi.nlm.nih.gov/pubmed/9843965 ordina,*Taylor WR, DePrimo SE, Agarwal A, Agarwal ML, Schonthal AH, Katula KS, Stark GR: Mechanisms of G2 arrest in response to overexpression of p53. Mol Biol Cell. 1999 Nov;10(11):3607-22., URL: https://www.ncbi.nlm.nih.gov/pubmed/10564259?ordin,*Taylor WR, Agarwal ML, Agarwal A, Stacey DW, Stark GR: p53 inhibits entry into mitosis when DNA synthesis is blocked. Oncogene. 1999 Jan 14;18(2):283-95., URL: https://www.ncbi.nlm.nih.gov/pubmed/9927185 ordina,*Tanigawa S, Fujii M, Hou DX: Stabilization of p53 is involved in quercetin-induced cell cycle arrest and apoptosis in HepG2 cells. Biosci Biotechnol Biochem. 2008 Mar;72(3):797-804., URL: https://www.ncbi.nlm.nih.gov/pubmed/18323654?ordin, *Bartek J, Bartkova J, Vojtesek B, Staskova Z, Lukas J, Rejthar A, Kovarik J, Midgley CA, Gannon JV, Lane DP: Aberrant expression of the p53 oncoprotein is a common feature of a wide spectrum of human malignancies. Oncogene. 1991 Sep;6(9):1699-703., URL: https://www.ncbi.nlm.nih.gov/pubmed/1923535?dopt=A,*Bartkova J, Bartek J, Lukas J, Vojtesek B, Staskova Z, Rejthar A, Kovarik J, Midgley CA, Lane DP: p53 protein alterations in human testicular cancer including pre-invasive intratubular germ-cell neoplasia. Int J Cancer. 1991 Sep 9;49(2):196-202., URL: https://www.ncbi.nlm.nih.gov/pubmed/1652567?dopt=A,*Rossner P Jr, Binková B, Chvátalová I, Srám RJ: Acrylonitrile exposure: the effect on p53 and p21(WAF1) protein levels in the blood plasma of occupationally exposed workers and in vitro in human diploid lung fibroblasts. Mutat Res. 2002 May 27;517(1-2):239-50., URL: https://www.ncbi.nlm.nih.gov/pubmed/12034325 ,*Dolezalova H, Vojtesek B, Kovarik J: Epitope analysis of the human p53 tumour suppressor protein. Folia Biol (Praha). 1997;43(1):49-51. , URL: https://www.ncbi.nlm.nih.gov/pubmed/9158951?dopt=A,

NCBI AND UNIPROT INFORMATION

NCBI GI #	120407068
NCBI GeneID	7157
NCBI Accession #	NP_000537.3

NCBI GenBank Nucleotide #	NM_000546.5
UniProt Accession #	P04637; Q15086; Q15087; Q15088; Q16535; Q16807; Q16808; Q16809; Q16810; Q16811; Q16848; Q2XN98
Molecular Weight	43,653 Da
NCBI Official Full Name	cellular tumor antigen p53 isoform a
NCBI Official Synonym Full Names	tumor protein p53
NCBI Official Symbol	TP53
NCBI Official Synonym Symbols	P53; BCC7; LFS1; TRP53
NCBI Protein Information	cellular tumor antigen p53; antigen NY-CO-13; phosphoprotein p53; p53 tumor suppressor; transformation-related protein 53
UniProt Protein Name	Cellular tumor antigen p53
UniProt Gene Name	TP53
UniProt Synonym Gene Names	P53
UniProt Entry Name	P53_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/mouse-human-primate-antibody/p53/129324>