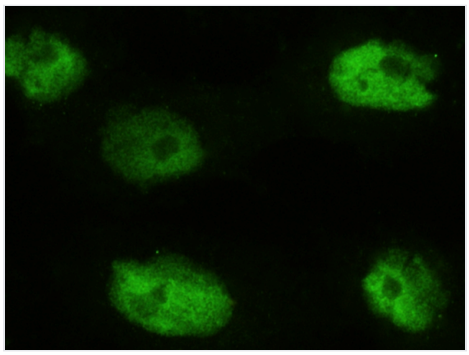
TP53 Antibody – Rabbit Monoclonal

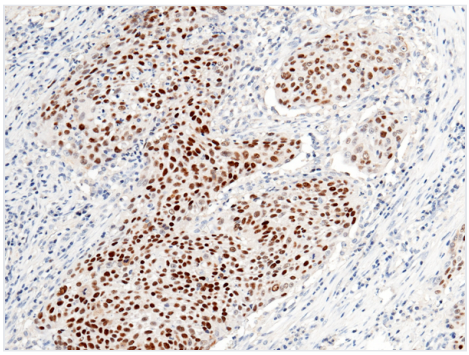
PRODUCT OVERVIEW

Product Name	p53 (TP53), Monoclonal Antibody
Full Product Name	Recombinant Anti-p53 Antibody, Rabbit Monoclonal
Product Gene Name	anti-TP53 antibody
Product Synonym Names	p53/TP53 Antibody, Rabbit MAb; tumor protein p53; Anti-p53 Antibody; Anti-TP53 Antibody
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	002
Host	Rabbit
Species Reactivity	Cynomolgus
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A
Specificity	Cynomolgus p53/TP53
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
3D Structure	ModBase 3D Structure for E3U906
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Cynomolgus p53/TP53 protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Cynomolgus p53/TP53.
Product Categories/Family for anti-TP53 antibody	Apoptosis Transcription Factors and Regulators Cancer Drug Targets Tumor Suppressors; Death Receptor Signaling
Applications Tested/Suitable for anti-TP53 antibody	Immunohistochemistry-Paraffin (IHC-P), Immunocytochemistry (ICC), Immunofluorescence (IF)
Application Notes for anti-TP53 antibody	IHC-P: 1:100-1:500 ICC/IF: 1:20-1:100

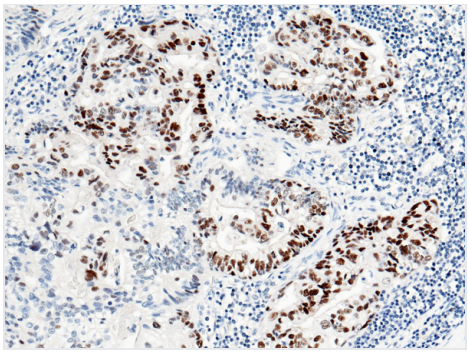
Related Product Information for anti-TP53 antibody	p53, also known as Tp53, is a DNA-binding protein which belongs to the p53 family. It contains transcription activation, DNA-binding, and oligomerization domains. p53 protein is expressed at low level in normal cells and at a high level in a variety of transformed cell lines, where it's believed to contribute to transformation and malignancy. p53 (TP53) is a transcription factor whose protein levels and post-translational modification state alter in response to cellular stress (such as DNA damage, hypoxia, spindle damage). Activation of p53 begins through a number of mechanisms including phosphorylation by ATM, ATR, Chk1 and MAPKs. MDM2 is a ubiquitin ligase that binds p53 and targets p53 for proteasomal degradation. Phosphorylation, p14ARF and USP7 prevent MDM2-p53 interactions, leading to an increase in stable p53 tetramers in the cytoplasm. Further modifications such as methylation and acetylation lead to an increase in Tp53 binding to gene specific response elements. Tp53 regulates a large number of genes (>100 genes) that control a number of key tumor suppressing functions such as cell cycle arrest, DNA repair, senescence and apoptosis. Whilst the activation of p53 often leads to apoptosis, p53 inactivation facilitates tumor progression. It is postulated to bind to a p53-binding site and activate expression of downstream genes that inhibit growth and/or invasion, and thus function as a tumor suppressor. Mutants of p53 that frequently occur in a number of different human cancers fail to bind the consensus DNA binding site, and hence cause the loss of tumor suppressor activity. Defects in TP53 are a cause of esophageal cancer, Li-Fraumeni syndrome, lung cancer and adrenocortical carcinoma.
Product References and Citations for anti-TP53 antibody	Bakhrat A, et al. (2010) Drosophila Chk2 and p53 proteins induce stage-specific cell death independently during oogenesis. Apoptosis. 15(12):1425-34. Kurzhals RL, et al. (2011) Chk2 and p53 are haploinsufficient with dependent and independent functions to eliminate cells after telomere loss. PLoS Genet. 7(6):e1002103. Pardi N, et al. (2011) In vivo effects of abolishing the single canonical sumoylation site in the C-terminal region of Drosophila p53. Acta Biol Hung. 62(4):397-412. Wells BS, et al. (2012) Maintenance of imaginal disc plasticity and regenerative potential in Drosophila by p53. Dev Biol. 361(2):263-76.
Other Notes	Small volumes of anti-TP53 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TP53 purchase	MBS8113103 is an antibody targeting TP53. Also known as Recombinant Anti-p53 Antibody, Rabbit Monoclonal. Reactive in Cynomolgus. Host: Rabbit.



Immunofluorescence (IF) of anti-TP53 antibody
Immunofluorescence staining of Cynomolgus p53 in A431 cells. Cells were fixed with 4% PFA, permeabilzed with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Cynomolgus p53 monoclonal antibody (1:60) at 37 degree C 1 hour. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to nucleus.



Immunohistochemistry (IHC) of anti-TP53 antibody
Immunochemical staining of cynomolgus p53 in human lung cancer with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections).



Immunohistochemistry (IHC) of anti-TP53 antibody
Immunochemical staining of cynomolgus p53 in human gastric cancer with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TP53. It may not necessarily be applicable to this product.

UniProt Primary Accession #	E3U906
Protein Family	Cellular tumor antigen
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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