

Novocastra™ Liquid Rabbit Polyclonal Antibody p53 Protein (CM5)

Product Code: NCL-L-p53-CM5p

Intended Use	FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.
Specificity	Mouse p53 protein
Antigen Used for Immunizations	Recombinant mouse p53 protein
Preparation	Liquid rabbit serum diluted in PBS with 1% BSA containing sodium azide. Volume as indicated on vial label.
Effective on Frozen Tissue	Not evaluated
Effective on Paraffin Wax Embedded Tissue	Yes
Recommendations on Use	<p>Immunohistochemistry on paraffin sections.</p> <p>Heat Induced Epitope Retrieval (HIER): Please follow the instructions for use in Novocastra Epitope Retrieval Solution pH 6.</p> <p>Suggested dilution: 1:200 for 30 minutes at 25 °C. This is provided as a guide and users should determine their own optimal working dilutions.</p> <p>Visualization: Please follow the instructions for use in the Novolink™ Polymer Detection Systems. For further product information or support, contact your local distributor or regional office of Leica Biosystems, or alternatively, visit the Leica Biosystems web site, www.LeicaBiosystems.com <u>The performance of this antibody should be validated when utilized with other manual staining systems or automated platforms.</u></p> <p>Western Blotting: Typical working dilution 1:2000 - 1:4000 (ECLTM, Amersham Pharmacia Biotech). This is provided as a guide and users should determine their own optimal working dilution (for cells and tissues evaluated). An anti-rabbit secondary (HRP labelled) should be used. A no primary antibody control should be included.</p> <p>If you require further technical assistance with Western Blotting please contact histosupport@LeicaBiosystems.com</p>
Positive Controls	<p>Immunohistochemistry: Irradiated mouse bowel or mouse T3T3 cells.</p> <p>Western Blotting: T3T3 cell line.</p>
Staining Pattern	Nuclear
Storage and Stability	Store at 2–8 °C. Do not freeze. Return to 2–8 °C immediately after use. Do not use after expiration date indicated on the vial label. Storage conditions other than those specified above must be verified by the user.
Warnings and Precautions	<p>This reagent has been prepared from rabbit sera. As it is a biological product, reasonable care should be taken when handling it.</p> <p>This reagent contains sodium azide. A Material Safety Data Sheet is available upon request or available from www.LeicaBiosystems.com</p>





B I O S Y S T E M S

General Overview

The accumulation of p53 protein in response to genotoxic stress *in vitro* is well understood. It appears to induce growth arrest and apoptosis by the transcriptional regulation of other genes, and possibly by other direct mechanisms.

General References

- Botchkarev V A, Komarova E A, Siebenhaar F, et al.. *American Journal of Pathology*. 158 (6): 1913–1919 (2001).
- Cattorelli G and Fei Q. *Antigen Retrieval Techniques*. 165–179. Eds. Shi S–R, Gu J and Taylor C R. Eaton Publishing (2000).
- Midgley C A, Owens B, Briscoe C V, et al.. *Journal of Cell Science*. 108: 1843–1848 (1995).
- Milner J O, Chan Y S, Medcalf E A, et al.. *Oncogene*. 8: 2001–2008 (1993).