

p53 Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX00033

Clone# RR637

Predicted Molecular Wt: 53kDa

Species Cross-reactivity: Human

Species cross-reactivity determined by WB

Purity: ProA affinity purified IgG

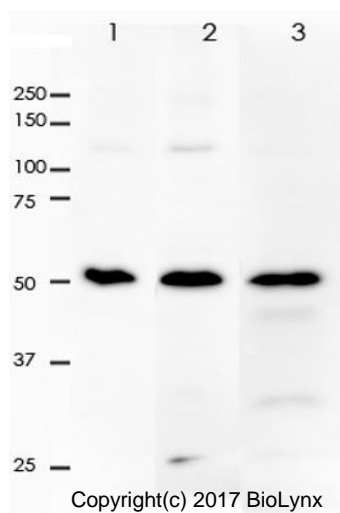
Form: Liquid

Swissprot ID: P04637

Applications: WB IHC-P IF/ICC FC

Background:

Acts as a tumor suppressor in many tumor types; induces growth arrest or apoptosis depending on the physiological circumstances and cell type. Involved in cell cycle regulation as a trans-activator that acts to negatively regulate cell division by controlling a set of genes required for this process. In cooperation with mitochondrial PPIF is involved in activating oxidative stress-induced necrosis; the function is largely independent of transcription.



All lanes: Anti-p53 antibody at 1:5,000 dilution

Predicted MW: 44 kDa
Observed MW: 53 kDa

Lane 1: A431
Lane 2: HaCat
Lane 3: T47D

Lysates at 10 µg per lane
2nd Ab:
GAR HRP(H+L) 1:10,000
Exposure: 30s

Immunogen:

A synthetic peptide corresponding to residues on the N-terminus of human p53 was used as an immunogen.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage conditions:

-20°C.

Storage instructions:

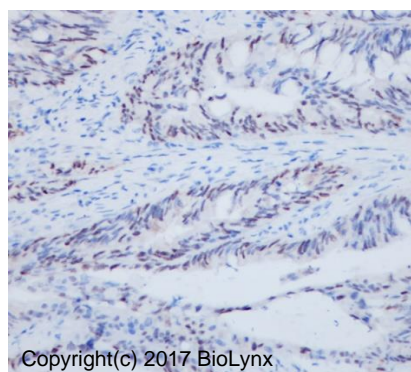
Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

Recommended Dilutions:

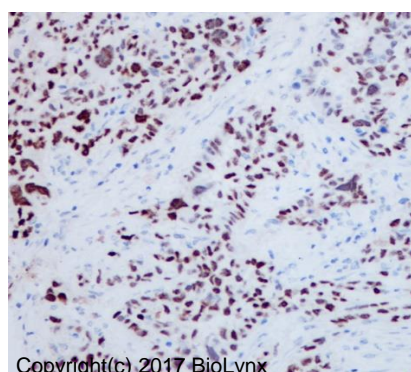
WB: 1:1,000 - 1:5,000
IHC-P: 1:1,000 - 1:2,000
IF/ICC: 1:200 - 1:1,000
FC: 1:20 - 1:100

Background References:

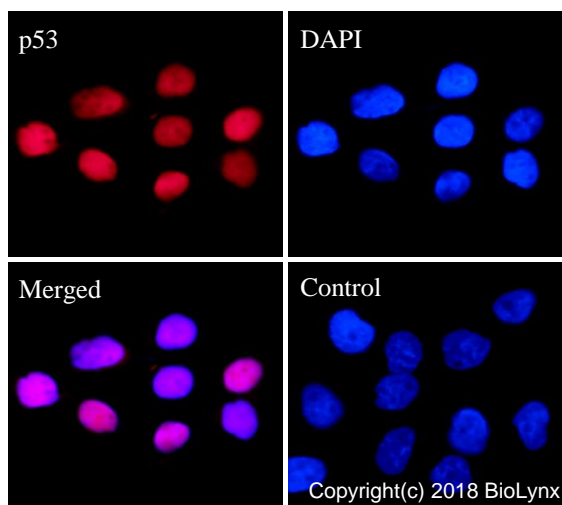
- Yang K et al. Exp Ther Med 12:422-426 (2016).
- Carter R et al. Sci Rep 6:20596 (2016).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colonic adenocarcinoma tissue labelling p53 with RR637 at 1:1,000. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0.

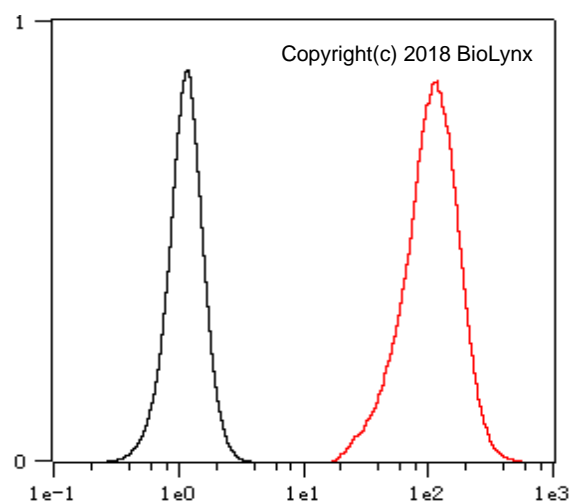


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human ovarian cancer tissue labelling p53 with RR637 at 1:1,000. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0.



RR637 staining p53 in A431 cells by IF/ICC (immunofluorescence/immunocytochemistry). Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 10% goat serum for half an hour at room temperature. Samples were incubated with primary antibody (1:1,000) at 4°C. An Alexa Fluor® 594-conjugated Goat Anti-Rabbit IgG polyclonal was used as the secondary antibody (1:500). DAPI (blue) was used as the nuclear counter stain.

Control: PBS and secondary antibody, An Alexa Fluor® 594-conjugated Goat Anti-Rabbit IgG (1:500).



Overlay histogram showing A431 cells stained with RR637 (Red). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% TritonX-100 for 15 min. The cells were then incubated in the antibody (RR637, 1:100 dilution) in 1x PBS/1% BSA for 30 min at room temperature. The secondary antibody used was a Goat Anti-Rabbit Alexa Fluor® 488 (IgG H+L) at 1:2,000 dilution for 20 min at room temperature. Unlabelled sample (Black) was used as a control.

Product QC'd by:



For research use only. Not for use in diagnostic or therapeutic applications.