

Phospho-p21 (Thr145) Polyclonal Antibody

| Product Details | |
|--------------------|--|
| Size | 100 µL |
| Species Reactivity | Human |
| Published Species | Human |
| Host/Isotype | Rabbit / IgG |
| Class | Polyclonal |
| Type | Antibody |
| Conjugate | Unconjugated |
| Immunogen | Peptide sequence around phosphorylation site of threonine 145 (R-Q-T(p)-S-M) derived from Human p21Cip1. |
| Form | Liquid |
| Concentration | 1 mg/mL |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.4, with 50% glycerol |
| Contains | 0.02% sodium azide |
| Storage conditions | -20°C |
| RRID | AB_2554128 |

| Applications | Tested Dilution | Publications |
|---|-----------------|---------------|
| Western Blot (WB) | 1:1,000 | 1 Publication |
| Immunohistochemistry (Paraffin) (IHC (P)) | 1:50-1:100 | - |

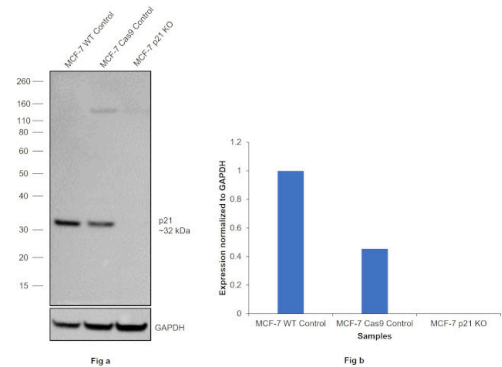
Product Specific Information

A suggested positive control for IHC is human breast carcinoma.

Product Images For Phospho-p21 (Thr145) Polyclonal Antibody

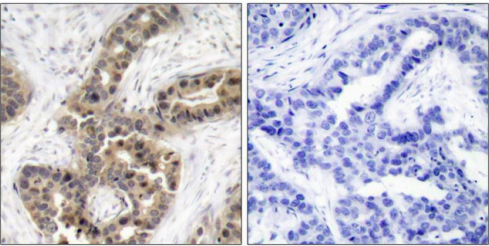
Phospho-p21 (Thr145) Antibody (PA5-37519)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of signal was observed for target protein in p21 KO cell line compared to control cell line using Phospho-p21 (Thr145) Polyclonal Antibody (Product # PA5-37519). {KO}



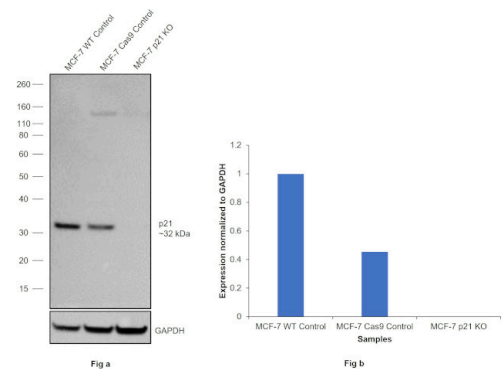
Phospho-p21 (Thr145) Antibody (PA5-37519) in IHC (P)

Immunohistochemical analysis of Phospho-p21 (Thr145) in paraffin-embedded Human breast carcinoma tissue using Phospho-p21 (Thr145) Polyclonal Antibody (Product # PA5-37519) (left) or the same antibody preincubated with blocking peptide (right).



Phospho-p21 (Thr145) Antibody (PA5-37519) in WB

Knockout of p21 was achieved by CRISPR-Cas9 genome editing using LentiArray™ Lentiviral sgRNA (Product # A32042, Assay ID CRISPR865095_LV) and LentiArray Cas9 Lentivirus (Product # A32064). Western blot analysis of p21 was performed by loading 30 µg of MCF7 wild type (Lane 1), MCF7 Cas9 (Lane 2) and MCF7 p21 KO (Lane 3) whole cell extracts. The samples were electrophoresed using NuPAGE™ 3 to 8%, Tris-Acetate, 1.0 mm, Mini Protein Gel (Product # EC6695BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with Phospho-p21 (Thr145) Polyclonal Antibody (Product # PA5-37519, 1:1000 dilution) and detected by Goat anti-Rabbit IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:10,000 dilution) using the iBright™ FL1500 (Product # A44115). Chemiluminescent detection was performed using SuperSignal™ West Atto Ultimate Sensitivity Substrate (Product # A38556). Loss of signal upon CRISPR mediated knockout (KO) using the LentiArray™ CRISPR product line confirms that antibody is specific to p21.



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Western Blot (1)

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|---|---|
| <p>Aging</p> <p>The novel roles of virus infection-associated gene CDKN1A in chemoresistance and immune infiltration of glioblastoma.</p> <p>"Published figure using Phospho-p21 (Thr145) polyclonal antibody (Product # PA5-37519) in Western Blot"</p> <p>Authors: Hu K,Li J,Wu G,Zhou L,Wang X,Yan Y,Xu Z</p> | <p>Year</p> <p>2021</p> <p>Species</p> <p>Human</p> |
|---|---|

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