

Technical Data Sheet

Recombinant Human p53 Protein (Wildtype)

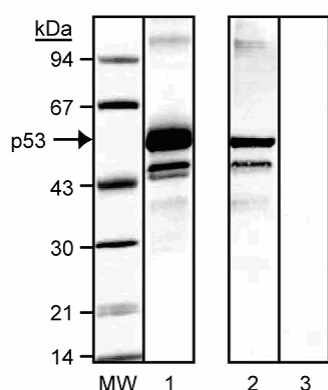
Product Information

Material Number:	556439
Size:	10 µg
Storage Buffer:	Aqueous buffered solution containing BSA and no preservative, 0.2 µm sterile filtered

Description

p53 is a nuclear phosphoprotein that plays a key role in cell growth regulation, particularly inhibition of cell proliferation. BD Biosciences Pharmingen offers a panel of p53 specific antibodies. The recombinant p53 protein is useful as a western blot control for antibodies that recognize human p53 and work in western blot. These antibodies include the following p53 clones: G59-12, PAb 122, PAb 240, PAb 1801, DO-1, DO-7. Recombinant human p53 was expressed in the Baculovirus Expression Vector System (BEVS) and purified from Sf9 insect cell lysate using an anti-p53 antibody, clone DO-7 (Cat. No. 554294).

The purity and the integrity of the protein was verified by SDS-PAGE and Western blot analysis.



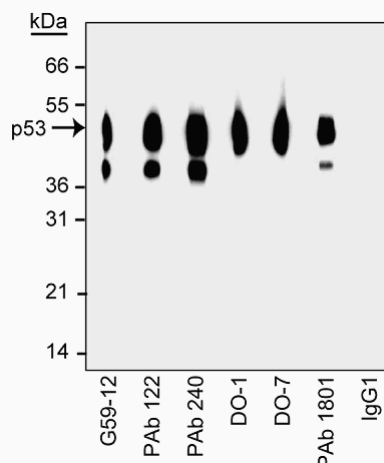
Analysis of purified recombinant p53. Lane 1, Coomassie Blue stained 4-20% mini SDS/PAGE. Lanes 2 and 3, Western blot analysis of p53 using clone PAb 240 (Cat. No. 554166) or a mouse IgG1 isotype (negative) control. A major p53 band is identified at 53 kDa. A lower molecular weight doublet, reactive with anti-p53 antibody, is uncharacterized. 1 µg of purified p53 was loaded into each lane of the gel. MW, Coomassie Blue stained molecular weight standards.

Preparation and Storage

This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Avoid multiple freeze-thaws of product.

The protein solution was sterile filtered and frozen at -20°C. Store the protein at -20°C; it may also be stored at -80°C.



Western blot analysis of recombinant p53 using a panel of antibodies. 150 ng of recombinant protein per lane of a mini gel was separated by SDS/PAGE and detected by Western blotting using p53 monoclonal antibodies that recognize different epitopes. A mouse IgG1 isotype was used as a negative control (Clone A85-1, Cat. No. 553440). The DO-1 and DO-7 antibodies identified a single band at 53 kDa. The other p53 antibodies identified a band at 53 kDa, as well as a lower uncharacterized band which may be a p53 breakdown product. Lane 1: G59-12, lane 2: PAb 122, lane 3: PAb 240, lane 4: DO-1, lane 5: DO-7, lane 6: PAb 1801.

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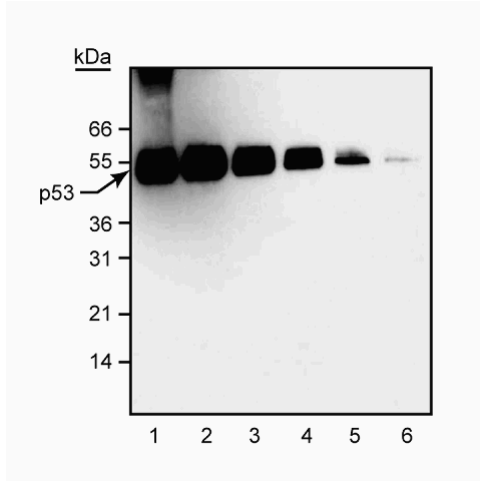
Application Notes

Application

Western blot	Routinely Tested
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Recommended Assay Procedure:

1 µg of protein can easily be visualized on a Coomassie Blue stained SDS/PAGE as a band of 53 kDa. For Western blot analysis, 50 ng or less is sufficient for the chemiluminescence detection method. The p53 recombinant protein has not been evaluated for suitability in other assays outside of Western blot analysis.



Western blot analysis of a p53 titration. Decreasing amounts of recombinant human p53 were loaded onto lanes of a mini gel separated by SDS/PAGE and detected by Western blotting using a monoclonal antibody to human p53 (clone DO-7, Cat. No. 554294). Protein loaded per lane ranged from 600-19 ng [1, 600 ng), 2 (300 ng), 3 (150 ng), 4 (75 ng), 5 (38 ng), and 6 (19 ng)].

Suggested Companion Products

Catalog Number	Name	Size	Clone
554157	Purified Mouse Anti-Human p53	0.1 mg	G59-12
554147	Purified Mouse Anti-p53	0.1 mg	PAb 122
554166	Purified Mouse Anti-p53	0.1 mg	PAb 240
554167	Purified Mouse Anti-p53	0.25 mg	PAb 240
554169	Purified Mouse Anti-Human p53	0.1 mg	PAb 1801
554293	Purified Mouse Anti-Human p53	0.1 mg	DO-1
554294	Purified Mouse Anti-Human p53	0.1 mg	DO-7

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.