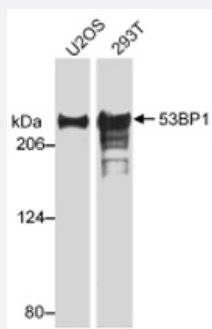


# TP53BP1 polyclonal antibody

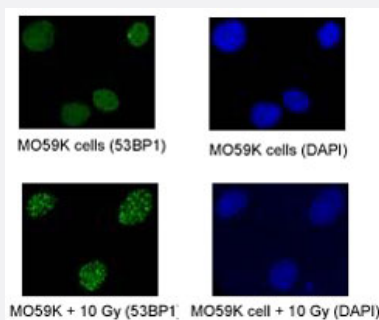
Catalog # PAB12506      Size 100 uL

## Applications



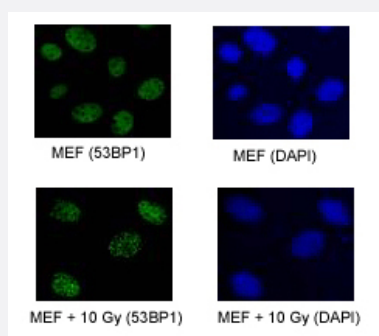
### Western Blot (Cell lysate)

Western blot analysis of TP53BP1 by TP53BP1 polyclonal antibody (Cat # PAB12506). Western blot Sample : Whole cell lysate (20 ug /lane) from U-2 OS or 293T cells.



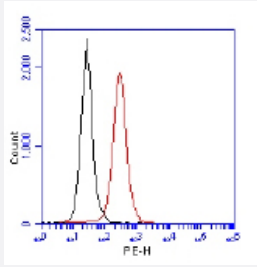
### Immunofluorescence

TP53BP1 foci in proliferating M059K cells were stained with TP53BP1 polyclonal antibody (Cat # PAB12506) ; both normal and exposed to 10 Gy of IR and double-color immunofluorescence stained after 2 hours.



### Immunofluorescence

TP53BP1 foci in proliferating MEF; both normal and exposed to 10 Gy of IR and double-color immunofluorescence stained after 2 hours. TP53BP1 stained with TP53BP1 polyclonal antibody (Cat #PAB12506).



## Flow Cytometry

Flow cytometric detection of TP53BP1 using TP53BP1 polyclonal antibody (Cat # PAB12506). 1 million Jurkat cells were fixed, permeabilized, and stained with TP53BP1 polyclonal antibody (Cat # PAB12506) in a 150 µl reaction. Isotype control (Black), TP53BP1 (red).

## Specification

**Product Description** Rabbit polyclonal antibody raised against partial recombinant TP53BP1.

**Immunogen** Recombinant protein corresponding to human TP53BP1.

**Host** Rabbit

**Reactivity** Human, Mouse

**Specificity** This antibody is specific to human 53BP1 protein.

**Form** Liquid

**Purification** Affinity purification

**Isotype** IgG

**Recommend Usage**  
Immunocytochemistry (1:100)  
Immunoprecipitation (2-10 mg/mg lysate)  
Western Blot (1:5000-1:25000)  
The optimal working dilution should be determined by the end user.

**Storage Buffer** In PBS (0.05% sodium azide)

**Storage Instruction**  
Store at -20°C.  
Aliquot to avoid repeated freezing and thawing.

**Note** This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Cell lysate)

Western blot analysis of TP53BP1 by TP53BP1 polyclonal antibody (Cat # PAB12506). Western blot Sample : Whole cell lysate (20 ug /lane) from U-2 OS or 293T cells.

- Immunocytochemistry

- Immunofluorescence

TP53BP1 foci in proliferating M059K cells were stained with TP53BP1 polyclonal antibody (Cat # PAB12506) ; both normal and exposed to 10 Gy of IR and double-color immunofluorescence stained after 2 hours.

- Immunofluorescence

TP53BP1 foci in proliferating MEF; both normal and exposed to 10 Gy of IR and double-color immunofluorescence stained after 2 hours. TP53BP1 stained with TP53BP1 polyclonal antibody (Cat #PAB12506).

- Immunoprecipitation

- Flow Cytometry

Flow cytometric detection of TP53BP1 using TP53BP1 polyclonal antibody (Cat # PAB12506). 1 million Jurkat cells were fixed, permeabilized, and stained with TP53BP1 polyclonal antibody (Cat # PAB12506) in a 150 mcl reaction. Isotype control (Black), TP53BP1 (red).

## Gene Info — TP53BP1

**Entrez GeneID** [7158](#)

**Protein Accession#** [NP\\_005648.1](#)

**Gene Name** TP53BP1

**Gene Alias** 53BP1, FLJ41424, MGC138366, p202

**Gene Description** tumor protein p53 binding protein 1

**Omim ID** [605230](#)

**Gene Ontology** [Hyperlink](#)

**Gene Summary** 1|tumor protein p53-binding protein

**Other Designations** tumor protein 53-binding protein, 1|tumor protein p53-binding protein, 1

## Publication Reference

- [Nanomaterial genotoxicity evaluation using the high-throughput p53-binding protein 1 \(53BP1\) assay.](#)

Maëlle Fontaine, Eline Bartolami, Marion Prono, David Béal, Magda Bloși, Anna L Costa, Costanza Ravagli, Giovanni Baldi, Simone Sprio, Anna Tampieri, Ivana Fenoglio, Lang Tran, Bengt Fadeel, Marie Carrière.

PLoS One 2023 Sep; 18(9):e0288737.

Application: IF, Human, HCT-116

- [Physicochemical Transformations of Silver Nanoparticles in the Oro-Gastrointestinal Tract Mildly Affect Their Toxicity to Intestinal Cells In Vitro: An AOP-Oriented Testing Approach.](#)

Ozge Kose, David Béal, Sylvie Motellier, Nathalie Pelissier, Véronique Collin-Faure, Magda Bloși, Rossella Bengalli, Anna Costa, Irini Furxhi, Paride Mantecca, Marie Carrière.

Toxics 2023 Feb; 11(3):199.

Application: IF, Human, HCT-116 cells

- [A rapid multiplex cell-free assay on biochip to evaluate functional aspects of double-strand break repair.](#)

Xavier Tatin, Giovanna Muggioli, Sarah Libert, David Béal, Thierry Maillet, Jean Breton, Sylvie Sauvaigo.

Scientific Reports 2022 Nov; 12(1):20054.

Application: IF, Human, HeLa, M059J, M059K cells

- [Changes of physico-chemical properties of nano-biomaterials by digestion fluids affect the physiological properties of epithelial intestinal cells and barrier models.](#)

Giulia Antonello, Arianna Marucco, Elena Gazzano, Panagiotis Kainourgios, Costanza Ravagli, Ana Gonzalez-Paredes, Simone Sprio, Esperanza Padín-González, Mahmoud G. Soliman, David Beal, Francesco Barbero, Paolo Gasco, Giovanni Baldi, Marie Carrière, Marco P. Monopoli, Costas A. Charitidis, Enrico Bergamaschi, Ivana Fenoglio, Chiara Riganti.

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Application: IF, Human, HCT116 cells

- [Biotransformation of Food-Grade and Nanometric TiO<sub>2</sub> in the Oral-Gastro-Intestinal Tract: Driving Forces and Effect on the Toxicity toward Intestinal Epithelial Cells.](#)

Arianna Marucco, Marion Prono, David Beal, Enrica Alasonati, Paola Fisicaro, Enrico Bergamaschi, Marie Carrière, Ivana Fenoglio.

Nanomaterials (Basel, Switzerland) 2020 Oct; 10(11):E2132.

Application: IF, Human, HCT-116 cells

- [Cell cycle control of telomere protection and NHEJ revealed by a ts mutation in the DNA-binding domain of TRF2.](#)

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Application: IF, Mouse, TRF2ts cells

- [Recent expansion of the telomeric complex in rodents: Two distinct POT1 proteins protect mouse telomeres.](#)

Hockemeyer D, Daniels JP, Takai H, de Lange T.

Cell 2006 Jul; 126(1):63.

- [A pathway of double-strand break rejoining dependent upon ATM, Artemis, and proteins locating to gamma-H2AX foci.](#)

Riballo E, Kuhne M, Rief N, Doherty A, Smith GC, Recio MJ, Reis C, Dahm K, Fricke A, Krempler A, Parker AR, Jackson SP, Gennery A, Jeggo PA, Lobrich M.

Molecular Cell 2004 Dec; 16(5):715.

## Disease

- [Adenocarcinoma](#)
- [Ataxia telangiectasia](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Colorectal Neoplasms](#)
- [DNA Damage](#)
- [Esophageal Neoplasms](#)
- [Gastroesophageal Reflux](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Lung Neoplasms](#)
- [Neoplasms](#)
- [Pancreatic Neoplasms](#)
- [Skin Neoplasms](#)
- [Stomach Neoplasms](#)
- [Tobacco Use Disorder](#)

- [Werner syndrome](#)