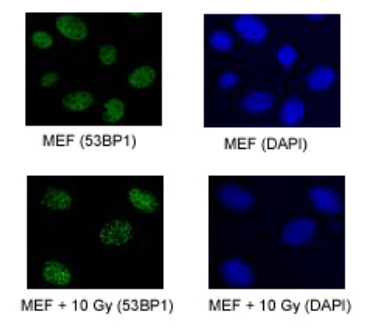
TP53BP1 polyclonal antibody

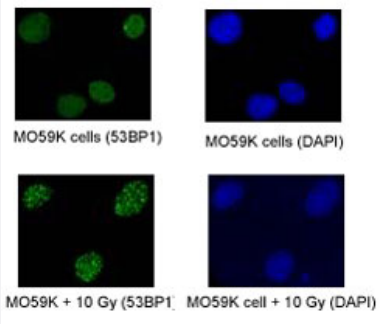
Catalog # PAB12506 Size 100 uL

Applications



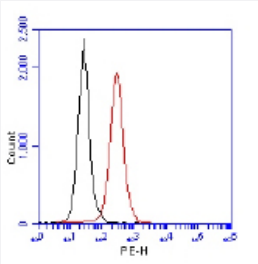
Immunofluorescence

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).



Immunofluorescence

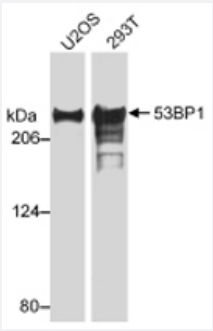
TP53BP1 foci in proliferating M059K cells were stained with TP53BP1 polyclonal antibody (Cat # PAB12506) ; both normal and exposed to 10 Gy of IR and double-color immunofluorescence stained after 2 hours.



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).

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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.

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 shoul d be handled by trained staff only.

Applications

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- 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).

- 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.

- Immunocytochemistry

- 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).

- Immunoprecipitation

- 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.

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

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- Complex Reactivity of Bisphenol A Diglycidyl Ether (BADGE) with DNA.

  Marion Berenguer, David Béal, Jean Breton, Thierry Douki.

  Chemical Research in Toxicology 2026 May; 39(5):977.

  Application: Func, qPCR, S-ELISA, WB-Ce, Human, Human blood, HepG2

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

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

  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 Blosi, Rossella Bengalli, Anna Costa, Irini Furxhi, Paride Mantecca, Marie Carriere.

  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 Muggiolu, Sarah Libert, David Béal, Thierry Maillet, Jean Breton, Sylvie Sauvaigo.

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

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

- Deep phenotyping and lifetime trajectories reveal limited effects of longevity regulators on the aging process in C57BL/6J mice.

  Kan Xie, Helmut Fuchs, Enzo Scifo, Dan Liu, N Ahmad Aziz, Juan Antonio Aguilar-Pimentel, Oana V Amarie, Lore Becker, Patricia Da Silva-Buttkus, Julia Calzada-Wack, Yi-Li Cho, Yushuang Deng, A Cole Edwards, Lillian Garrett, Christina Georgopoulou, Raffaele Gerlini, Sabine M Holter, Tanja Klein-Rodewald, Michael Kramer, Stefanie Leuchtenberger, Dimitra Lountzi, Phillip Mayer-Kuckuk, Lena L Nover, Manuela A Oestereicher, Clemens Overkott, Brandon L Pearson, Birgit Rathkolb, Jan Rozman, Jenny Russ,

  Nat Commun 2022 Nov; 13(1):6830.

- 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 Carriere, Marco P. Monopoli, Costas A. Charitidis, Enrico Bergamaschi, Ivana Fenoglio, Chiara Riganti.

  Particle and Fibre Toxicology 2022 Jul; 19(1):49.

  Application: IF, Human, HCT116 cells

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- Evaluation of the Dermal Toxicity of InZnP Quantum Dots Before and After Accelerated Weathering: Toward a Safer-By-Design Strategy.

  Fanny Dussert, Karl David Wegner, Christine Moriscot, Benoit Gallet, Pierre-Henri Jouneau, Peter Reiss, Marie Carriere

  Front Toxicol 2022 Mar; 3:636976.

- Biotransformation of Food-Grade and Nanometric TiO 2 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 Carriere, 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.

  Konishi A, de Lange T.

  Genes & Development 2008 May; 22(9):1221.

  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

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- 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

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