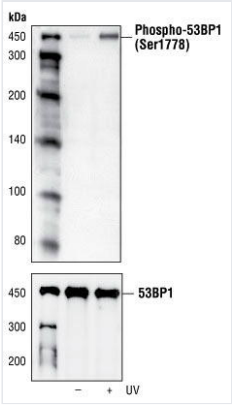
P53 Binding Protein 1 Antibody – Rabbit Polyclonal

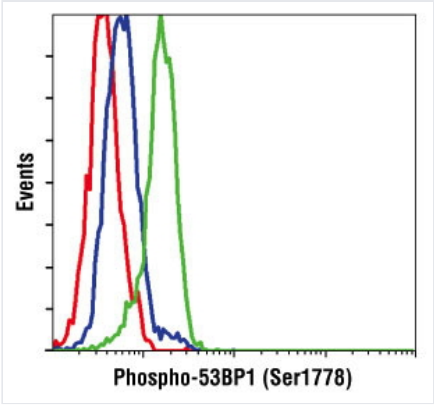
PRODUCT OVERVIEW

Product Name	p53 Binding Protein 1, Polyclonal Antibody
Full Product Name	p53 Binding Protein 1, phosphorylated (Ser1778) (53BP1, 53-BP1, FLJ41424, MGC138366, p202, p53BP1, Tumor Protein 53 Binding Protein 1, Tumor Protein p53 Binding Protein 1, TP53BP1, Tumor Suppressor p53 Binding Protein 1)
Product Synonym Names	Anti -p53 Binding Protein 1, phosphorylated (Ser1778) (53BP1, 53-BP1, FLJ41424, MGC138366, p202, p53BP1, Tumor Protein 53 Binding Protein 1, Tumor Protein p53 Binding Protein 1, TP53BP1, Tumor Suppressor p53 Binding Protein 1)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Monkey
Form/Format	Supplied as a liquid in 10mM sodium HEPES, pH 7.5, 150mM sodium chloride, 0.1mg/ml BSA, < 0.02% sodium azide, 50% glycerol.
Purity/Purification	Affinity Purified Purified by Protein A and peptide affinity chromatography.
Specificity	Recognizes endogenous levels of 53BP1 only when phosphorylated at serine 1778. Species crossreactivity: Monkey.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding Ser1778 of human 53BP1.
Product Categories/Family for anti-p53 Binding Protein 1 antibody	Antibodies; Abs to Binding Proteins
Applications Tested/Suitable for anti-p53 Binding Protein 1 antibody	Western Blot (WB), Immunocytochemistry (ICC), Flow Cytometry (FC/FACS), Immunofluorescence (IF)
Application Notes for anti-p53 Binding Protein 1 antibody	Suitable for use in Immunofluorescence, Flow Cytometry, Western Blot and Immunocytochemistry. Dilution: Immunofluorescence: 1:100 Flow Cytometry: 1:100 Western Blot: 1:1000 Immunocytochemistry: 1:100
Related Product Information for anti-p53 Binding Protein 1 antibody	p53-binding protein 1 (53BP1) was originally identified as a p53 binding partner that could enhance the transcriptional activity of p53 (1,2). 53BP1 consists of two BRCA1 carboxy terminal (BRCT) domains that allow for binding to p53 and a separate domain responsible for binding to phosphorylated histone H2A.X (3). 53BP1 rapidly translocates to nuclear foci following treatment of cells with ionizing radiation (IR) or radiomimetic agents that cause DNA double strand breaks (DSBs) (4,5). Because of this localization to DSBs and homology to the yeast protein Rad9, a role for 53BP1 in DSB repair has been proposed. Recruitment of 53BP1 to sites of DNA damage has been demonstrated to be independent of ATM, NBS1, and DNA-PK (4) and retention of 53BP1 at DNA breaks requires phosphorylated H2A.X (6). In cells lacking 53BP1, phosphorylation of ATM substrates is reduced, suggesting that 53BP1 is upstream of ATM (7). In response to IR, phosphorylation of 53BP1 at serines 6, 25, 29, and 784 by ATM has been demonstrated, but phosphorylation at these sites is not required for localization of 53BP1 to sites of DSBs (6).

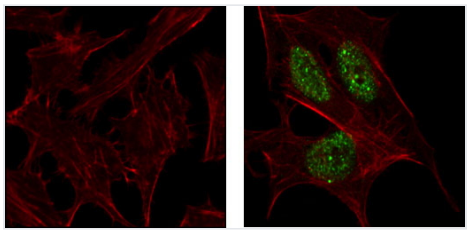
Other Notes	Small volumes of anti-p53 Binding Protein 1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for p53 Binding Protein 1 purchase	MBS628846 is an antibody targeting p53 Binding Protein 1. Also known as p53 Binding Protein 1, phosphorylated (Ser1778) (53BP1, 53-BP1, FLJ41424, MGC138366, p202, p53BP1, Tumor Protein 53 Binding Protein 1, Tumor Protein p53 Binding Protein 1, TP53BP1, Tumor Suppressor p53 Binding Protein 1). Reactive in Human, Monkey. Host: Rabbit.



Western Blot (WB) of anti-p53 Binding Protein 1 antibody
Western blot analysis of extracts from 293 cells, untreated or UV-treated (50 mJ for 2 hours), using Phospho-53BP1 (Ser1778) Antibody (upper) or 53BP1 Antibody (lower).



Flow Cytometry (FC/FACS) of anti-p53 Binding Protein 1 antibody
Flow cytometric analysis of HeLa cells, untreated (blue) or UV-treated (green), using Phospho-53BP1 (Ser1778) Antibody compared with a nonspecific negative control antibody (red).



Immunofluorescence (IF) of anti-p53 Binding Protein 1 antibody
Confocal immunofluorescent analysis of HeLa cells, untreated (left) or UV-treated (right), using Phospho-53BP1 (Ser1778) Antibody (green). Actin filaments have been labeled with Alexa Fluor® 555 phalloidin (red).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for p53 Binding Protein 1. It may not necessarily be applicable to this product.

NCBI GI #	1842230
NCBI Accession #	AAC53040.1
NCBI Official Full Name	P53
Protein Family	Protein
UniProt Comments for p53 Binding Protein 1	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. One of the activated genes is an inhibitor of cyclin-dependent kinases. Apoptosis induction seems to be mediated either by stimulation of BAX and FAS antigen expression, or by repression of Bcl-2 expression. In cooperation with mitochondrial PPIF is involved in activating oxidative stress-induced necrosis; the function is largely independent of transcription. Prevents CDK7 kinase activity when associated to CAK complex in response to DNA damage, thus stopping cell cycle progression. Induces the transcription of long intergenic non-coding RNA p21 (lincRNA-p21) and lincRNA-Mkln1. LincRNA-p21 participates in TP53-dependent transcriptional repression leading to apoptosis and seem to have to effect on cell-cycle regulation. Regulates the circadian clock by repressing CLOCK-ARNTL/BMAL1-mediated transcriptional activation of PER2.

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