



Rabbit Anti-phospho-p53BP1 (Ser25 + Ser29) antibody

SL3020R

Product Name:	phospho-p53BP1 (Ser25 + Ser29)
Chinese Name:	磷酸化p53Binding protein1抗体
Alias:	53BP1 (phospho S25); p-53BP1 (phospho S25) ;53BP1 (Phospho-Ser25/29); 53BP1 (Phospho-S25/S29); phospho-p53BP1(Ser25/Ser29); P-53BP1 (Ser25/29); 53 BP1; FLJ41424; MGC138366; p202; p53 binding protein 1; p53 BP1; p53BP1; TP53 BP1; TP53BP1; Tumor protein 53 binding protein 1; Tumor protein p53 binding protein 1; Tumor suppressor p53 binding protein 1; TP53B_HUMAN; tumor protein 53-binding protein, 1.
文献引用 PubMed :	Specific References(1) SL3020R has been referenced in 1 publications. [IF=4.60] Cai, Zhiqiang, et al. "Oncogenic miR-17/20a Forms a Positive Feed-forward Loop with the p53 Kinase DAPK3 to Promote Tumorigenesis." Journal of Biological Chemistry (2015): jbc-M115. WB;Human. PubMed:26117336
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	213kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human p53BP1 around the

	phosphorylation site of Ser25/29:ED(p-S)QPE(p-S)QV
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	<p>p53 binding protein 1 (53BP1) plays a critical role in tumor suppression and is a putative substrate of ATM kinase. Upon DNA damage, it is phosphorylated and relocalizes to the presumptive sites of damage, specifically, double strand breaks. This also suggests a role in DNA repair, maintaining genomic stability.</p> <p>Function: May have a role in checkpoint signaling during mitosis. Enhances TP53-mediated transcriptional activation. Plays a role in the response to DNA damage.</p> <p>Subunit: Interacts with IFI202A. Binds to the central domain of p53/TP53. May form homooligomers. Interacts with DCLRE1C. Interacts with histone H2AFX and this requires phosphorylation of H2AFX on 'Ser-139'. Interacts with histone H4 that has been dimethylated at 'Lys-20' (H4K20me2). Has low affinity for histone H4 containing monomethylated 'Lys-20' (H4K20me1). Does not bind histone H4 containing unmethylated or trimethylated 'Lys-20' (H4K20me3). Has low affinity for histone H3 that has been dimethylated on 'Lys-79'. Has very low affinity for histone H3 that has been monomethylated on 'Lys-79' (in vitro). Does not bind unmethylated histone H3. Interacts with MUM1/EXPAND1. Interacts with CHEK2; modulates CHEK2 phosphorylation at 'Thr-68' in response to infrared. Interacts with MSL1; this interaction may be required for MSL1 DNA repair activity, but not for histone acetyltransferase activity.</p> <p>Subcellular Location: Nucleus. Chromosome; centromere; kinetochore. Associated with kinetochores. Both nuclear and cytoplasmic in some cells. Recruited to sites of DNA damage, such as double strand breaks. Methylation of histone H4 at 'Lys-20' is required for efficient localization to double strand breaks.</p> <p>Post-translational modifications: Asymmetrically dimethylated on Arg residues by PRMT1. Methylation is required for DNA binding. Phosphorylated at basal level in the absence of DNA damage. Hyper-phosphorylated in an ATM-dependent manner in response to DNA damage induced by ionizing radiation. Hyper-phosphorylated in an ATR-dependent manner in response to DNA damage induced by UV irradiation.</p>

DISEASE:

Note=A chromosomal aberration involving TP53BP1 is found in a form of myeloproliferative disorder chronic with eosinophilia. Translocation t(5;15)(q33;q22) with PDGFRB creating a TP53BP1-PDGFRB fusion protein.

Similarity:

Contains 2 BRCT domains.

SWISS:

Q12888

Gene ID:

7158

Database links:

[Entrez Gene: 7158](#)Human

[Entrez Gene: 27223](#)Mouse

[Omim: 605230](#)Human

[SwissProt: Q12888](#)Human

[SwissProt: P70399](#)Mouse

[Unigene: 440968](#)Human

[Unigene: 383499](#)Mouse

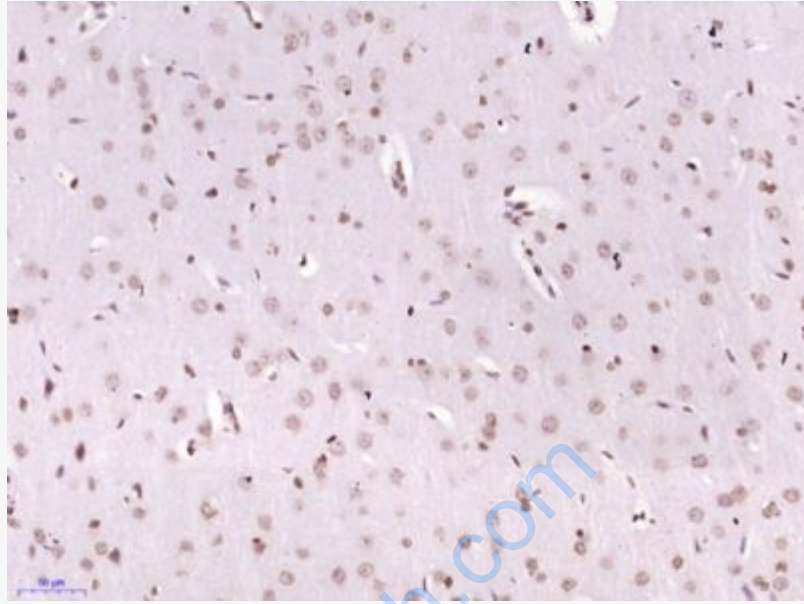
[Unigene: 481841](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

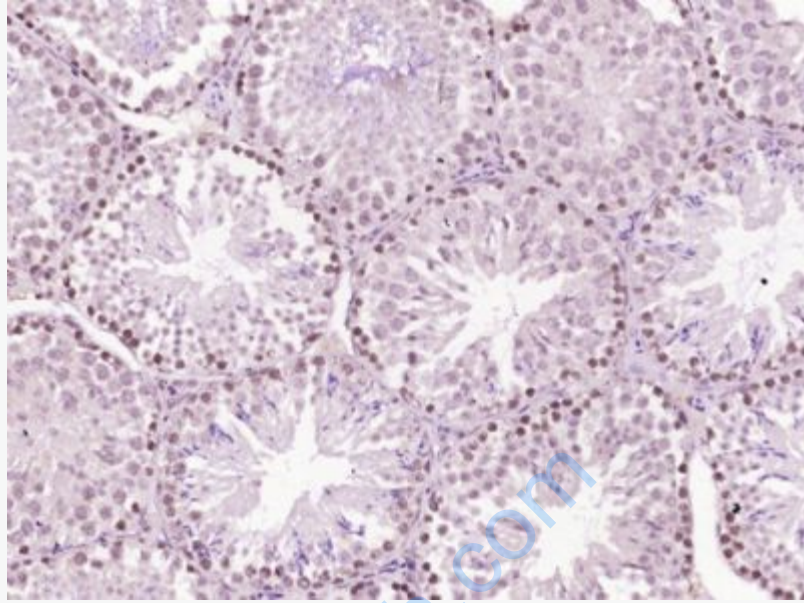
p53Binding

protein1(53BP1)是细胞周期检查点激酶蛋白,是新近发现的DNA损伤修复通路中两个非常重要的蛋白激酶MDC1和53BP1蛋白之一,目前多用于Tumour方面的研究。



Picture:

Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-p53BP1 (Ser25 + Ser29)) Polyclonal Antibody, Unconjugated (SL3020R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-p53BP1 (Ser25 + Ser29)) Polyclonal Antibody, Unconjugated (SL3020R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.