

ASPP2 Rabbit pAb

Catalog # AP100130

Product Information

Application	WB
Primary Accession	Q13625
Other Accession	Q13625
Reactivity	Human, Mouse
Predicted	Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	125616
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ASPP2
Epitope Specificity	1001-1128/1128
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the ASPP family. Contains 2 ANK repeats. Contains 1 SH3 domain.
SUBUNIT	Binds to the central domain of TP53 as well as to BCL2. Interacts with protein phosphatase 1. Interacts with RELA NF-kappa-B subunit. This interaction probably prevents the activation of apoptosis, possibly by preventing its interaction with TP53. Interacts with APC2 and APPBP1. Interacts with DDX42 (via the C-terminus); the interaction is not inhibited by TP53BP2 ubiquitination and is independent of p53/TP53.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of the ASPP (apoptosis-stimulating protein of p53) family of p53 interacting proteins. The protein contains four ankyrin repeats and an SH3 domain involved in protein-protein interactions. It is localized to the perinuclear region of the cytoplasm, and regulates apoptosis and cell growth through interactions with other regulatory molecules including members of the p53 family. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	7159
Other Names	53BP2; ASPP2; BBP; P53BP2; PPP1R13A; Tp53bp2; ASPP2_HUMAN; Bcl2-binding protein (Bbp); Renal carcinoma antigen NY-REN-51; Tumor suppressor p53-binding protein 2 (53BP2 p53-binding protein 2 p53BP2); ASPP2_MOUSE; Trp53bp2; tumor protein p53 binding protein 2; tumor protein p53-binding protein, 2
Dilution	WB=1:500-2000,ICC/IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.
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Protein Information

Name	TP53BP2
Synonyms	ASPP2, BBP
Function	Regulator that plays a central role in regulation of apoptosis and cell growth via its interactions with proteins such as TP53 (PubMed: 12524540). Regulates TP53 by enhancing the DNA binding and transactivation function of TP53 on the promoters of proapoptotic genes in vivo. Inhibits the ability of NAE1 to conjugate NEDD8 to CUL1, and thereby decreases NAE1 ability to induce apoptosis. Impedes cell cycle progression at G2/M. Its apoptosis-stimulating activity is inhibited by its interaction with DDX42.
Cellular Location	Cytoplasm, perinuclear region. Nucleus. Note=Predominantly found in the perinuclear region. Some small fraction is nuclear. Sequester in the cytoplasm on overexpression of DDX42
Tissue Location	Widely expressed. Expressed in spleen, thymus, prostate, testis, ovary, small intestine, colon and peripheral blood leukocyte. Reduced expression in breast carcinomas expressing a wild- type TP53 protein. Overexpressed in lung cancer cell lines

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