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[Marker Primary Antibody]

Rabbit Anti-p53 DINP1/AF647 Conjugated antibody

Catalog Number: SL6146R-AF647

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-p53 DINP1/AF647
Immunogen:	KLH conjugated synthetic peptide derived from human p53 DINP1
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted:Human,Mouse,Rat,Pig,Horse,Sheep)
Background:	background: In response to double-strand DNA breaks, promotes p53/TP53 phosphorylation on 'Ser-46' and subsequent apoptosis. **Function:** Antiproliferative and proapoptotic protein involved in cell stress response which acts as a dual regulator of transcription and autophagy. Acts as a positive regulator of autophagy. In response to cellular stress or activation of autophagy, relocates to autophagosomes where it interacts with autophagosome-associated proteins GABARAP, GABARAPL1/L2, MAP1LC3A/B/C and regulates autophagy. Acts as an antioxidant and plays a major role in p53/TP53-driven oxidative stress response. Possesses both a p53/TP53-independent intracellular reactive oxygen species (ROS) regulatory function and a p53/TP53-dependent transcription regulatory function. Positively regulates p53/TP53 and p73/TP73 and stimulates their capacity to induce apoptosis and regulate cell cycle. In response to double-strand DNA breaks, promotes p53/TP53 phosphorylation on 'Ser-46' and subsequent apoptosis. Acts as a tumor

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	suppressor by inducing cell death by an autophagy and caspase-dependent mechanism. Can reduce cell migration by regulating the expression of SPARC. **Subunit:** nteracts with p53/TP53 and HIPK2. Interacts with PRKCG, GABARAP, GABARAPL1, GABARAPL2, MAP1LC3A, MAP1LC3B AND MAP1LC3C. **Subcellular Location:** Cytoplasm, cytosol. Nucleus. Nucleus, PML body. Cytoplasmic vesicle, autophagosome. Note=Shuttles between the nucleus and the cytoplasm, depending on cellular stress conditions, and re-localizes to autophagosomes on autophagy activation. **Tissue Specificity:** Ubiquitously expressed. **Database links:** **Entrez Gene:** 94241 Human **Entrez Gene:** 60599 Mouse **Entrez Gene:** 297822 Rat Omim: 606185 Human **SwissProt:** Q96A56 Human **SwissProt:** Q9QXE4 Mouse **SwissProt:** Q80YE2 Rat **Unigene:** 492261 Human **Unigene:** 393018 Mouse **Unigene:** 48267 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.