Anti-p53 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R012089

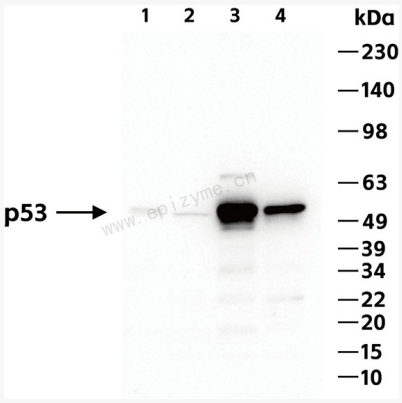
Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	76K75K75
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of mouse p53
Format	Buffer System: 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA Purification: Affinity Purified.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-p53 antibody [76K75K75] is for research use only and not for use in diagnostic or therapeutic procedures.

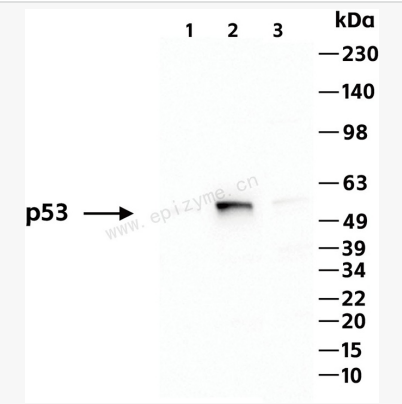
Protein Information

Synonyms	bbl; bfy; bhy; p44; p53; Tp53.
Calculated MW	Calculated MW: 53 kDa; Observed MW: 53 kDa
Uniprot ID	P02340
Gene ID	22059
Background	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.
Cellular Location	Cytoplasm; Nucleus; Nucleus, PML body; Endoplasmic reticulum; Mitochondrion matrix; Cytoplasm, cytoskeleton, microtubule organizing center, centrosome.a Note: Interaction with BANP promotes nuclear localization. Recruited into PML bodies together with CHEK2. Translocates to mitochondria upon oxidative stress. Translocates to mitochondria in response to mitomycin C treatment (By similarity). Competitive inhibition of TP53 interaction with HSPA9/MOT-2 by UBXN2A results in increased protein abundance and subsequent translocation of TP53 to the nucleus (By similarity).
Tissue Location	Expressed in a circadian manner in the suprachiasmatic nucleus (SCN) of the brain with a peak seen at ZT8.

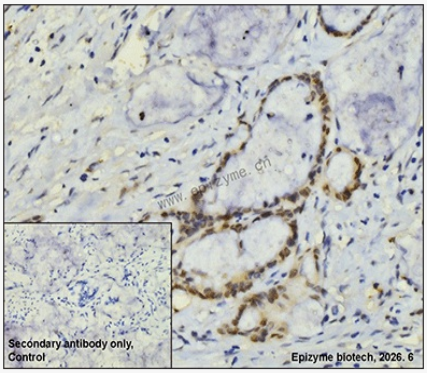
Validation Images



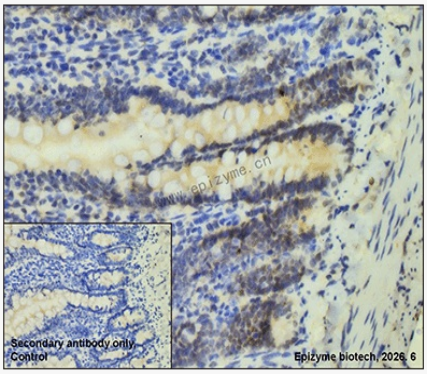
Western Blot - Anti-p53 Rabbit mAb [76K75K75]
All lanes: R012089 at 1:1,000 dilution
Lane 1: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 2: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 3: 293T (Human embryonic kidney cell) whole cell lysates
Lane 4: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 53 kDa
Observed band size: 53 kDa
Developed using the ECL technique (Cat. No. SQ201).



Western Blot - Anti-p53 Rabbit mAb [76K75K75]
All lanes: R012089 at 1:1,000 dilution
Lane 1: THP-1 (Human monocytic leukemia cell) whole cell lysates
Lane 2: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane 3: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 53 kDa
Observed band size: 53 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-p53 Rabbit mAb [76K75K75]
Sample: Paraformaldehyde-fixed, paraffin embedded, human colon cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R012089 at 1:100 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-p53 Rabbit mAb [76K75K75]
Sample: Paraformaldehyde-fixed, paraffin embedded, rat colon tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R012089 at 1:100 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.