

# IHC*easy* TP53BP2 Ready-To-Use IHC Kit

Catalog Number: **KHC2439**

## General Information

**Sample type:**  
FFPE tissue

**Cited sample type:**

**Reactivity:**  
Human, Mouse, Rat

**Cited Reactivity:**

**Assay type:**  
Immunohistochemistry

**Primary antibody type:**  
Rabbit Polyclonal

**Secondary antibody type:**  
Polymer-HRP-Goat anti-Rabbit

## Kit Component

Component	Size	Concentration
Antigen Retrieval Buffer	100 mL	50×
Washing Buffer	100 mL × 2	20×
Blocking Buffer	5 mL	RTU
Primary Antibody	5 mL	RTU
Secondary Antibody	5 mL	RTU
Chromogen Component A	0.2 mL	RTU
Chromogen Component B	4 mL	RTU
Signal Enhancer	5 mL	RTU
Counter Staining Reagent	5 mL	RTU
Mounting Media	5 mL	RTU
Control Slide	1 slide (Optional)	FFPE
Datasheet	1 Copy	
Manual	1 Copy	

## Storage Instructions

All the reagents are stored at 2-8°C. The kit is stable for 6 months from the date of receipt.

## Background

TP53BP2 is also named as ASPP2, BBP and 53BP2. TP53BP2 is a regulator that plays a central role in regulation of apoptosis and cell growth via its interactions with proteins such as TP53. Numerous *in vitro* and animal experiments have shown that reduced TP53BP2 expression can inhibit apoptosis of tumor cells, cause malignant proliferation, disrupt cell polarity, promote cell migration, and enhance autophagy and drug resistance to chemotherapy. In terms of autophagy, the decrease of TP53BP2 expression enhances autophagy in hepatocellular carcinoma (HCC) cells, promoting the survival and drug resistance of HCC cells. TP53BP2 can interact with p53, NF-κB p65, Bcl-2, HCV core protein, PP1, YAP, CagA, RAS, PAR3, and other proteins to regulate cell function. TP53BP2 can also regulate the proliferation, apoptosis, autophagy, migration, EMT and drug resistance of tumor cells through downstream signaling pathways, such as NF-κB, RAS/MAPK, mevalonate, TGF-β1, PI3K/AKT, aPKC-I/Gli1 and autophagy pathways.

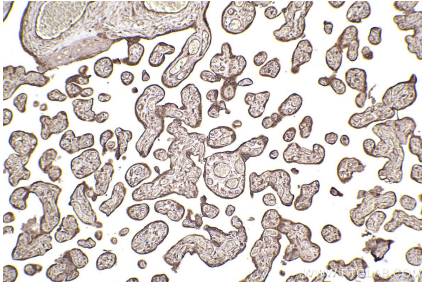
## Synonyms

TP53BP2, 53BP2, Apoptosis-stimulating of p53 protein

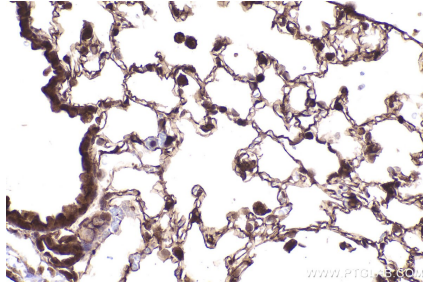
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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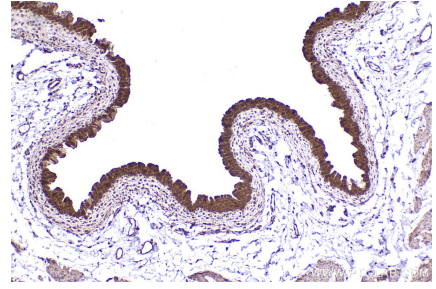
## Selected Validation Data



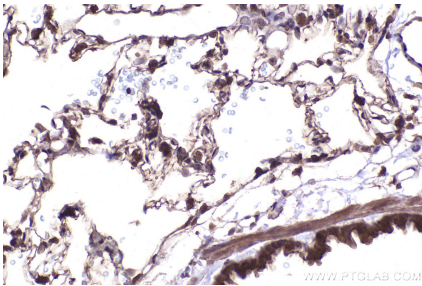
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using KHC2439 (TP53BP2 IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using KHC2439 (TP53BP2 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat bladder tissue slide using KHC2439 (TP53BP2 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat lung tissue slide using KHC2439 (TP53BP2 IHC Kit).