

# 53BP1 Rabbit mAb

Catalog No.: A3859 **Recombinant**

## Basic Information

### Observed MW

450kDa

### Calculated MW

214kDa

### Category

Primary antibody

### Applications

ELISA, IHC-P, IF/ICC

### Cross-Reactivity

Human, Mouse

### CloneNo number

ARC0850

## Background

This gene encodes a protein that functions in the DNA double-strand break repair pathway choice, promoting non-homologous end joining (NHEJ) pathways, and limiting homologous recombination. This protein plays multiple roles in the DNA damage response, including promoting checkpoint signaling following DNA damage, acting as a scaffold for recruitment of DNA damage response proteins to damaged chromatin, and promoting NHEJ pathways by limiting end resection following a double-strand break. These roles are also important during V(D)J recombination, class switch recombination and at unprotected telomeres. Alternative splicing results in multiple transcript variants encoding different isoforms.

## Recommended Dilutions

IHC-P 1:50 - 1:200

IF/ICC 1:50 - 1:200

## Immunogen Information

### Gene ID

7158

### Swiss Prot

Q12888

### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1-100 of human 53BP1 (Q12888).

### Synonyms

p202; 53BP1; TDRD30; p53BP1

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

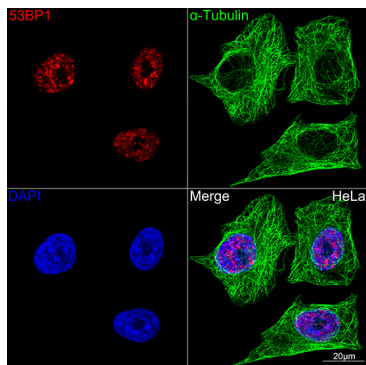
Affinity purification

### Storage

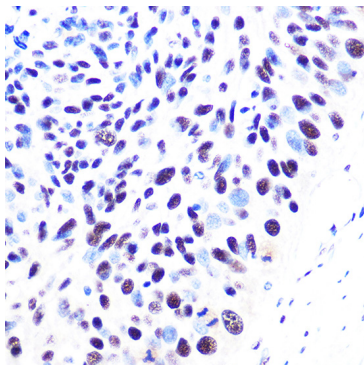
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

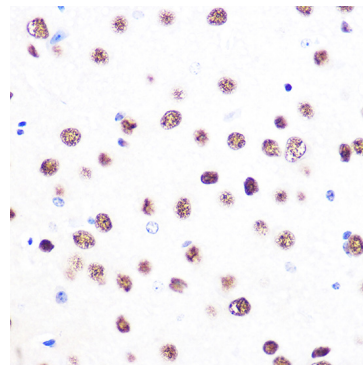
## Validation Data



Confocal imaging of HeLa cells using 53BP1 Rabbit mAb (A3859,dilution 1:100)(Red). The cells were counterstained with  $\alpha$ -Tubulin Mouse mAb (AC012,dilution 1:400) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.



Immunohistochemistry analysis of 53BP1 in paraffin-embedded human esophageal cancer using 53BP1 Rabbit mAb (A3859) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunohistochemistry analysis of 53BP1 in paraffin-embedded mouse brain using 53BP1 Rabbit mAb (A3859) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.