

Recombinant

DGRmAb®

**53BP1 (DGR14147) Rabbit mAb (PBS Only)**

db15410-PBS

Package : 10µg 100µg

**Product Name** : 53BP1 (DGR14147) Rabbit mAb (PBS Only)**Cat.No.:** db15410-PBS**Synonyms** : TP53; p202; 53BP1; TDRD30; p53BP1**Application** : WB, IHC, ICC/IF, FC**Reactivity** : Human, Mouse, Rat**Host species** : Rabbit**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. [provided by RefSeq, Aug 2017]

**Immunogen**

A synthetic peptide of human 53BP1

**Gene ID**

7158

**Swiss Prot**

Q12888

**Synonyms**

TP53; p202; 53BP1; TDRD30; p53BP1

**Reactivity**

Human, Mouse, Rat

**Application**

WB, IHC, ICC/IF, FC

**Calculated MW**

214 kDa

**Observed MW**

450 kDa

**Host species**

Rabbit

**Clonality**

Monoclonal

**Clonality No.**

DGR14147

**Isotype**

IgG

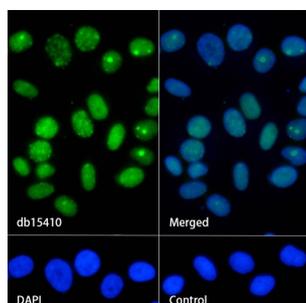
**Purity**

Affinity Purification

<b>Conjugation</b>	Un-conjugated
<b>Concentration</b>	1 mg/mL
<b>Formulation</b>	PBS Only
<b>Storage Stability</b>	Store at -20°C. Recommended to aliquot into single-use vials. Supplied in 1X PBS (pH 7.4). BSA and Azide Free. Stable for 12 months from date of receipt.



Western blot analysis of extracts from HeLa cells using [db15410](#) at 1:1000.



Immunofluorescence analysis of HepG2 cells labelling 53BP1 with [db15410](#).

The cells were fixed with 4% PFA (10min, RT) followed by treatment with 0.1% Triton X-100 (10min, RT), and blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween 20 for 1h. The cells were then incubate with [db15410](#) (1:100) at room temprature for 1h, followed by a further incubation at room temperature for 45min with Goat Anti Rabbit IgG (H+L)-AF488 [db10005](#), shown in green). Nuclear DNA was labeled in blue with DAPI.

Control: Secondary antibody only.