Recombinant DGRmAb®

53BP1 (DGR14147) Rabbit mAb (PBS Only)

db15410-PBS **Package : 10μg 100μg**

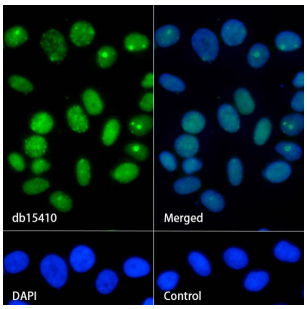
Product Name : 53BP1 (DGR14147) Rabbit mAb (PBS Only)
Cat.No.: db15410-PBS
Synonyms : TP53; p202; 53BP1; TDRD30; p53BP1
Application : WB, IHC, ICC/IF, FC
Reactivity : Human, Mouse, Rat
Host species : Rabbit

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

Conjugation	Un-conjugated
Concentration	1 mg/mL
Formulation	PBS Only
Storage Stability	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.