Recombinant DGRmAb®

53BP1 (DGR14147) Rabbit mAb

db15410 **Package : 10μL 20μL 50μL 100μL**

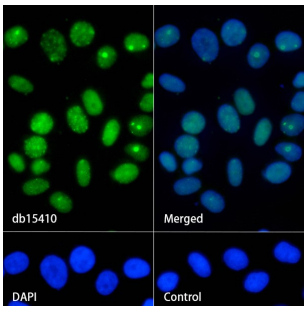
Product Name : 53BP1 (DGR14147) Rabbit mAb
Cat.No.: db15410
Synonyms : TP53; p202; 53BP1; TDRD30; p53BP1
Application : WB, IHC, ICC/IF, FC
Reactivity : Human, Mouse, Rat
Host species : Rabbit

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
Recommended dilution	WB: 1:1000 IHC: 1:100-1:200 ICC/IF: 1:100-1:200 FC: 1:20
Calculated MW	214 kDa
Observed MW	450 kDa
Host species	Rabbit
Clonality	Monoclonal

Clonality No.	DGR14147
Isotype	IgG
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. 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.