# Product Data Sheet
# 53BP1 Rabbit Monoclonal Antibody

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| **Product name:** | 53BP1 Rabbit Monoclonal Antibody |
| **Cat number:** | MABN87074 |
| **Conjugate:** | Unconjugated |
| **Size:** | 100µL |
| **Clone:** | Monoclonal |
| **Concentration:** | 1mg/ml |
| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Immunogen:** | A synthetic peptide of human 53BP1 |
| **Reactivity:** | Human |
| **Applications:** | WB 1:5000-1:50000,IHC 1:50-1:100,ICC/IF 1:100-1:200 |
| **Molecular Weight:** | Calculated MW:214 kDa; Observed MW:450 kDa |
| **Purification:** | Affinity Purification |
| **Form:** | Liquid |
| **Buffer:** | 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. |
| **Storage:** | Store at 4°C short term. Aliquot and store at -20°C for 12 months. Avoid freeze/thaw cycles. |
| **Synonyms:** | TP53; p202; 53BP1; TDRD30; p53BP1 |
| **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] |