

53BP1 Ab

Cat.#: AF4760
Size: 50ul,100ul,200ul

Concn.: 1mg/ml
Source: Rabbit

Mol.Wt.: 450kDa
Clonality: Polyclonal

Application: WB 1:500-1:2000

Reactivity: Human,Rat

Purification: The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

Specificity: 53BP1 Ab detects endogenous levels of 53BP1 .

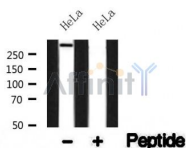
Immunogen: A synthesized peptide derived from human 53BP1 .

Uniprot: Q12888

Subcellular Location: Nucleus. Chromosome > centromere > kinetochore. Associated with kinetochores. Both nuclear and cytoplasmic in some cells. Recruited to sites of DNA damage, such as double strand breaks. Methylation of histone H4 at 'Lys-20' is required for efficient localization to double strand breaks.

Similarity: The Tudor-like region mediates binding to histone H4 dimethylated at 'Lys-20' (H4K20me2) (PubMed:17190600). Interaction with NUDT16L1/TIRR masks the Tudor-like domain and prevents recruitment to chromatin (PubMed:28241136).The UDR (ubiquitin-dependent recruitment) motif specifically recognizes and binds histone H2A monoubiquitinated at 'Lys-15' (H2AK15ub) (PubMed:23760478, PubMed:24703952). Phosphorylation of the UDR blocks interaction with H2AK15ub (PubMed:24703952).

Storage Condition and Buffer: Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt.



Western blot analysis of 53BP1 in lysates of HeLa, using 53BP1 Ab(AF4760).

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight.

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