For Research Use Only

CoraLite® Plus 647-conjugated XRCC5 Monoclonal antibody

Catalog Number: CL647-66546

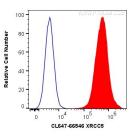
| Basic Information | Catalog Number: CL647-66546 | GenBank Accession Number: BC019027 | Purification Method: Protein G purification |
|------------------------|---|---|---|
| | Size: 100ul , Concentration: 1000 µg/ml by Nanodrop; Source: Mouse Isotype: IgG1 Immunogen Catalog Number: AG9512 | GeneID (NCBI): 7520 UNIPROT ID: P13010 Full Name: X-ray repair complementing defectiv repair in Chinese hamster cells 5 (double-strand-break rejoining) Calculated MW: 732 aa, 83 kDa Observed MW: 80-83 kDa | CloneNo.: 2G5E7 Excitation/Emission maxima wavelengths: 654 nm / 674 nm re |
| Applications | Tested Applications: FC (Intra) Species Specificity: Human, mouse, rat | | |
| Background Information | There are at least two pathways for eukaryotes to repair DNA double-strand breaks: homologous recombination and nonhomologous end joining(NHEJ). The core NHEJ machinery includes XRCC4, DNA ligase IV and the DNA-dependent protein kinase complex, which consists of the DNA end-binding XRCC5/XRCC6 heterodimer and the catalytic subunit PRKDC. The heterdimer of XRCC5/XRCC6 enhanced teh affinity of the catalytic subunit PRKDC to DNA by 100-fold. Once the XRCC5/6 dimer association with NAA15, it can bind to the osteocalcin promoter and activate osteocalcin expression. The XRCC5/6 dimer acts as a negative regulator of transcription when together with APEX1. Some publised papers indicated that the MW of XRCC5 is 86kDa, while more papers suggested that XRCC5 is a 80kDa protein, as it was firstly introducted in publication. Thus, Ku80 and Ku86 are the same protein. | | |
| Storage | Storage: Store at -20°C. Avoid exposure to ligh Storage Buffer: PBS with 50% Glycerol, 0.05% Proclin Aliquoting is unnecessary for -20°C st | n300, 0.5% BSA, pH 7.3. | |

For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.comW: ptglab.com

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Selected Validation Data



1X10^6 HeLa cells were intracellularly stained with 0.2 ug CoraLite® Plus 647 Anti-Human XRCC5 (CL647-66546, Clone:2G5E7) (red), or 0.2 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).