For Research Use Only

## LIG4 Monoclonal antibody

Catalog Number:66705-1-Ig

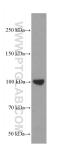


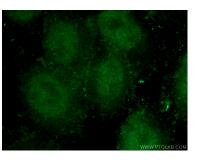
| Basic Information      | Catalog Number:<br>66705-1-lg   | GenBank Accession Number:<br>BC037491                                | Purification Method:<br>Protein G purification                            |                                   |
|------------------------|---|--|---|-----------------------------------|
|                        | Size:<br>1000 µg/ml   | GenelD (NCBI):<br>3981   | CloneNo.:<br>1H6C11   |                                   |
|                        | Source:<br>Mouse<br>Isotype:<br>IgG2a<br>Immunogen Catalog Number:<br>AG3385  | UNIPROT ID:<br>P49917<br>Full Name:<br>ligase IV, DNA, ATP-dependent | Recommended Dilutions:<br>WB 1:1000-1:4000<br>IF/ICC 1:50-1:500           |                                   |
|                        |   |  |   | Calculated MW:<br>911 aa, 104 kDa |
|                        |   | Observed MW:<br>100-104 kDa  |   |                                   |
|                        |   | Applications   | Tested Applications:<br>IF/ICC, WB,ELISA<br>Species Specificity:<br>Human | Positive (                        |
|                        | WB : PC-3 cells, HeLa cells, HepG2 cells, Jurkat cells,<br>Ramos cells, human testis tissue   |  |   |                                   |
| IF/ICC : H             | epG2 cells,   |  |   |                                   |
| Background Information | Two major pathways, homologous recombination (HR) and nonhomologous end joining (NHEJ), counteract one of themost toxic lesions, the DSB. The core protein complex mediating NHEJ in mammals includes DNA ligase IV (Lig4). Lig4 belongs to an ATP-dependent DNA ligase family, and joins single-strand brdownloadeaks in a double-stranded polydeoxynucleotide in an ATP-dependent reaction. The complex Lig4-XRCC4 is responsible for the NHE ligation step, and XRCC4 enhances the joining activity of Lig4. |  |   |                                   |
| Storage                | Storage:<br>Store at -20°C. Stable for one year<br>Storage Buffer:  | after shipment.  |   |                                   |
|                        | PBS with 0.02% sodium azide and   | 1 50% glycerol pH 7.3.   |   |                                   |

For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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## Selected Validation Data





PC-3 cells were subjected to SDS PAGE followed by western blot with 66705-1-1g (LIG4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.

Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 66705-1-Ig (LIG4 antibody) at dilution of 1:100 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).