For Research Use Only

LIG4 Monoclonal antibody, PBS Only

Catalog Number:66705-1-PBS

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
66705-1-PBS

Size:
1 mg/ml

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG3385

GenBank Accession Number:
BC037491

GeneID (NCBI):
3981

UNIPROT ID:
P49917

Full Name:
ligase IV, DNA, ATP-dependent

Calculated MW:
911 aa, 104 kDa

Observed MW:
100-104 kDa

Purification Method:
Protein A purification

CloneNo.:
1H6C11

Applications

Tested Applications:
WB,Indirect ELISA,IF

Species Specificity:
Human

Background Information

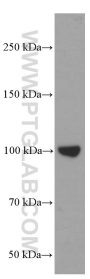
Two major pathways, homologous recombination (HR) and nonhomologous end joining (NHEJ), counteract one of themost toxic lesions, the DSB. The core protein complex mediating NHEJ in mammals includes DNA ligase IV (Lig4). Lig4 belongs to an ATP-dependent DNA ligase family, and joins single-strand brdownloadeaks in a double-stranded polydeoxynucleotide in an ATP-dependent reaction. The complex Lig4-XRCC4 is responsible for the NHEJ ligation step, and XRCC4 enhances the joining activity of Lig4.

Storage

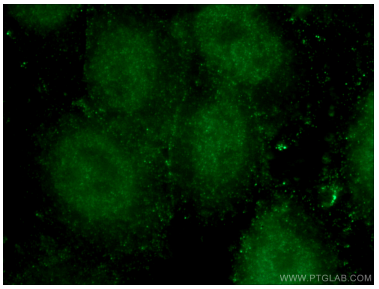
Storage:
Store at -80°C.
Storage Buffer:
PBS Only

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

Selected Validation Data



PC-3 cells were subjected to SDS PAGE followed by western blot with 66705-1-Ig (LIG4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66705-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 66705-1-PBS in a different storage buffer formulation.