LIG4 Monoclonal antibody, PBS Only

proteintech®

Antibodies | ELISA kits | Proteins

Catalog Number:66705-1-PBS

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Basic Information

Catalog Number: 66705-1-PBS	**GenBank Accession Number:** BC037491	**Purification Method:** Protein A purification
Size: 1 mg/ml	**GeneID (NCBI):** 3981	**CloneNo.:** 1H6C11
Source: Mouse	**UNIPROT ID:** P49917	
Isotype: IgG2a	**Full Name:** ligase IV, DNA, ATP-dependent	
Immunogen Catalog Number: AG3385	**Calculated MW:** 911 aa, 104 kDa	
	Observed MW: 100-104 kDa	

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℃.
The product is shipped with ice packs. Upon receipt, store it immediately at -80℃
Storage Buffer:
PBS Only
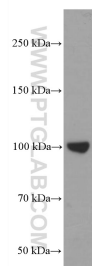
PC-3 cells were subjected to SDS PAGE followed by western blot with 66705-1-Ig (LIG4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66705-1-PBS in a different storage buffer formulation.
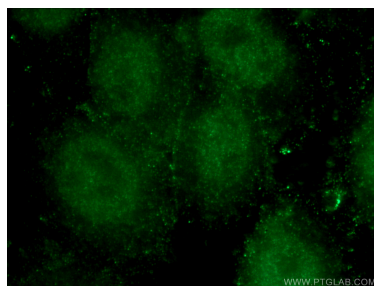
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 66705-1-Ig (LIG4 antibody) at dilution of 1:100 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66705-1-PBS in a different storage buffer formulation.