For Research Use Only

LIG4 Monoclonal antibody

Catalog Number: 66705-1-Ig



Basic Information

Catalog Number: GenBank Accession Number:

66705-1-Ig BC037491 Size: GeneID (NCBI):

150ul , Concentration: 1000 ug/ml by 3981
Nanodrop and 1000 ug/ml by Bradford UNIPROT ID:
method using BSA as the standard; P49917
Source: Full Name:

Mouse ligase IV, DNA, ATP-dependent

Isotype: Calculated MW:
IgG2a 911 aa, 104 kDa
Immunogen Catalog Number: Observed MW:
AG3385 100-104 kDa

Purification Method:

Protein G purification

CloneNo.: 1H6C11

IF/ICC 1:50-1:500

WB: PC-3 cells, HeLa cells, HepG2 cells, Jurkat cells,

Recommended Dilutions: WB 1:1000-1:4000

Applications

Tested Applications: WB, IF/ICC, ELISA

Species Specificity: Ramos cells, human testis tissue Human

IF/ICC: HepG2 cells,

Positive Controls:

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 -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

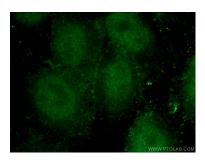
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

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-lg (LIG4 antibody) at dilution of 1:100 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).