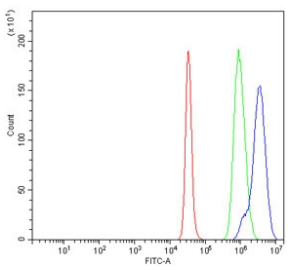
DNA Ligase 3 Antibody / LIG3 (RQ6702)

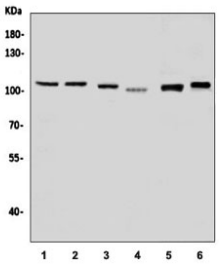
Catalog No.	Formulation	Size
RQ6702	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P49916
Applications	Western Blot : 1-2ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This DNA Ligase 3 antibody is available for research use only.



Flow cytometry testing of human K562 cells with DNA Ligase 3 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= DNA Ligase III antibody.



Western blot testing of 1) human HepG2, 2) human HEK293, 3) human PC-3, 4) human ThP-1, 5) rat PC-12 and 6) mouse RAW264.7 cell lysate with DNA Ligase 3 antibody. Predicted molecular weight ~113 kDa.

Description

DNA ligase 3 is an enzyme that, in humans, is encoded by the LIG3 gene. This gene is a member of the DNA ligase family. Each member of this family encodes a protein that catalyzes the joining of DNA ends but they each have a distinct role in DNA metabolism. The protein encoded by this gene is involved in excision repair and is located in both the mitochondria and nucleus, with translation initiation from the upstream start codon allowing for transport to the mitochondria and translation initiation from a downstream start codon allowing for transport to the nucleus. Additionally, alternate transcriptional splice variants, encoding different isoforms, have been characterized.

Application Notes

Optimal dilution of the DNA Ligase 3 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids D297-D963) was used as the immunogen for the DNA Ligase 3 antibody.

Storage

After reconstitution, the DNA Ligase 3 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.