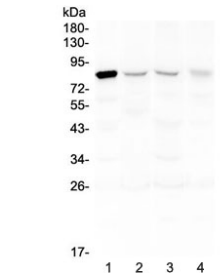
DNA Polymerase iota Antibody / POLI (RQ4298)

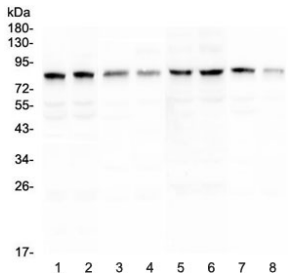
Catalog No.	Formulation	Size
RQ4298	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

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 and 0.025% sodium azide
UniProt	Q9UNA4
Localization	Nucleus
Applications	Western Blot : 0.5-1ug/ml
Limitations	This DNA Polymerase iota antibody is available for research use only.



Western blot testing of human 1) HeLa, 2) placenta, 3) A549 and 4) SK-OV-3 lysate with DNA Polymerase iota antibody at 0.5ug/ml. Predicted molecular weight ~83 kDa.



Western blot testing of rat 1) testis, 2) testis, 3) kidney, 4) stomach and mouse 5) testis, 6) testis, 7) kidney and 8) stomach lysate with DNA Polymerase iota antibody at 0.5ug/ml. Predicted molecular weight ~83 kDa.

Description

DNA polymerase iota is an enzyme that in humans is encoded by the POLI gene. The protein encoded by this gene is an error-prone DNA polymerase involved in DNA repair. The encoded protein promotes DNA synthesis across lesions in the template DNA, which other polymerases cannot do. The encoded polymerase inserts deoxynucleotides across lesions and then relies on DNA polymerase zeta to extend the nascent DNA strand to bypass the lesion.

Application Notes

Optimal dilution of the DNA Polymerase iota antibody should be determined by the researcher.

Immunogen

Amino acids DIDPQVFYELPEAVQKELLAEWKRAGSDFHIGHK were used as the immunogen for the DNA Polymerase iota antibody.

Storage

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

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