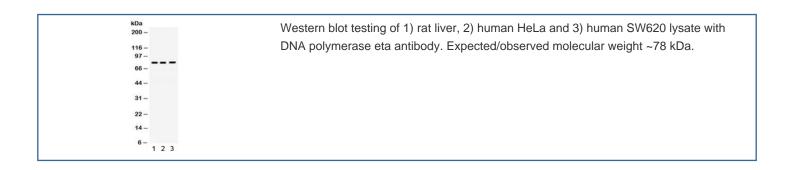


# DNA polymerase eta Antibody / POLH (R32359)

| Catalog No. | Formulation   | Size   |
|-------------|---|--------|
| R32359      | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

#### **Bulk quote request**

| Availability       | 1-3 business days  |
|--------------------|--|
| Species Reactivity | Human, Rat   |
| Format             | Antigen affinity purified  |
| Clonality          | Polyclonal (rabbit origin)   |
| Isotype            | Rabbit IgG   |
| Purity             | Antigen affinity   |
| Buffer             | Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide        |
| UniProt            | Q9Y253   |
| Applications       | Western Blot : 0.1-0.5ug/ml  |
| Limitations        | This DNA polymerase eta antibody is available for research use only. |



### **Description**

DNA polymerase eta (POLH), is a protein that in humans is encoded by the POLH gene. This gene encodes a member of the Y family of specialized DNA polymerases. It copies undamaged DNA with a lower fidelity than other DNA-directed polymerases. However, it accurately replicates UV-damaged DNA; when thymine dimers are present, this polymerase inserts the complementary nucleotides in the newly synthesized DNA, thereby bypassing the lesion and suppressing the mutagenic effect of UV-induced DNA damage. This polymerase is thought to be involved in hypermutation during immunoglobulin class switch recombination. Mutations in this gene result in XPV, a variant type of xeroderma pigmentosum. Several transcript variants encoding different isoforms have been found for this gene.

### **Application Notes**

Optimal dilution of the DNA polymerase eta antibody should be determined by the researcher.

#### **Immunogen**

Amino acids 157-361 of human POLH were used as the immunogen for the DNA polymerase eta antibody.

## **Storage**

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