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Datasheet for ABIN1711280  
**anti-POLM antibody (AA 261-360) (HRP)**

### Overview

|                      |                                                                                                                                                  |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Quantity:            | 100 µL                                                                                                                                           |
| Target:              | POLM                                                                                                                                             |
| Binding Specificity: | AA 261-360                                                                                                                                       |
| Reactivity:          | Human                                                                                                                                            |
| Host:                | Rabbit                                                                                                                                           |
| Clonality:           | Polyclonal                                                                                                                                       |
| Conjugate:           | This POLM antibody is conjugated to HRP                                                                                                          |
| Application:         | Western Blotting (WB), ELISA, Immunohistochemistry (Frozen Sections) (IHC (fro)),<br>Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

### Product Details

|                       |                                                                       |
|-----------------------|-----------------------------------------------------------------------|
| Immunogen:            | KLH conjugated synthetic peptide derived from human DNA polymerase mu |
| Isotype:              | IgG                                                                   |
| Cross-Reactivity:     | Human                                                                 |
| Predicted Reactivity: | Mouse,Rat,Horse                                                       |
| Purification:         | Purified by Protein A.                                                |

### Target Details

|                   |                                                     |
|-------------------|-----------------------------------------------------|
| Target:           | POLM                                                |
| Alternative Name: | DNA polymerase mu ( <a href="#">POLM Products</a> ) |

## Target Details

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|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Background: | <p>Synonyms: DNA Polymerase Mu, DNA-directed DNA polymerase mu, DNA-directed DNA/RNA polymerase mu, DPOLM_HUMAN, FLJ35482, Pol iota, Pol Mu, Polm, POLM protein, Polymerase DNA directed mu, Polymerase DNA directed mu, Tdt N, Tdt-N, TdtN, Terminal transferase.</p> <p>Background: DNA polymerase mu shares a number of characteristics with DNA polymerase Beta as well as with terminal deoxynucleotidyltransferase. Pol mu purportedly plays a role in microhomology mediated joining and the repair of double-stranded breaks. However, unlike other DNA polymerases, which show substrate specificity for deoxynucleotides, DNA Pol mu incorporates both deoxynucleotides and ribonucleotides in a template- directed manner. This unusual capability implies a novel role for this polymerase in DNA repair.</p> |
| Gene ID:    | 27434                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Pathways:   | <a href="#">DNA Damage Repair</a> , <a href="#">Production of Molecular Mediator of Immune Response</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Application Details

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|--------------------|-----------------------------------------------------|
| Application Notes: | WB 1:300-5000<br>IHC-P 1:200-400<br>IHC-F 1:100-500 |
| Restrictions:      | For Research Use only                               |

## Handling

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|                    |                                                                                                                    |
|--------------------|--------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                             |
| Concentration:     | 1 µg/µL                                                                                                            |
| Buffer:            | Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.        |
| Preservative:      | ProClin                                                                                                            |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Handling Advice:   | Do NOT add Sodium Azide! Use of Sodium Azide will inhibit enzyme activity of horseradish peroxidase.               |
| Storage:           | -20 °C                                                                                                             |
| Storage Comment:   | Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.                                  |
| Expiry Date:       | 12 months                                                                                                          |