



COSMO BIO CO., LTD.  
Inspiration for Life Science

## Cosmo Bio Co., Ltd

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Catalog No. **CBX00559**

Mouse monoclonal antibody

**Anti-Human POLD1**

### ■ Formulation

Mouse monoclonal anti-human **POLD1** antibody  
in PBS (3.0 mM KCl, 1.5 mM  $\text{KH}_2\text{PO}_4$ ,  
140 mM NaCl, 8.0 mM  $\text{Na}_2\text{HPO}_4$  (pH 7.4))  
containing 1% bovine serum albumin (BSA)  
and 0.05% sodium azide ( $\text{NaN}_3$ ).

### ■ Antibody concentration

100  $\mu\text{g}/\text{ml}$  (1.0 ml)

### ■ Storage

Store at 2-8°C for up to one year.  
We recommend storing at -20°C for long-term storage.  
Avoid repeat freezing and thawing cycles.

### ■ Preparation

This antibody was purified using protein G column  
chromatography from culture supernatant of hybridoma  
cultured in a medium containing bovine IgG-depleted  
(approximately 95%) fetal bovine serum.

### ■ Sterility

Filtered through a 0.22  $\mu\text{m}$  membrane.

### ■ Applications

WB, Dot Blot

### ■ Disposal

This antibody solution contains sodium azide ( $\text{NaN}_3$ )  
as a preservative. There is a potential hazard that  
 $\text{NaN}_3$  reacts with copper or lead to produce an expl-  
osive compound. For safe disposal, the vial has to  
be washed thoroughly with water.

### ■ Safety warnings and precautions

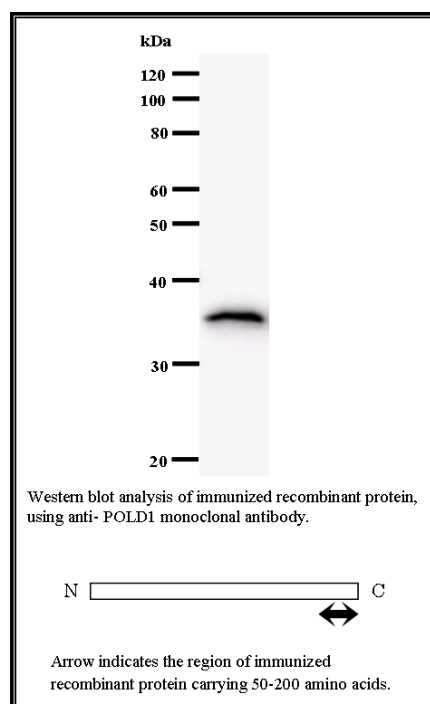
Caution must be taken to avoid contact with skin or eyes. In such a case, rinse thoroughly at once with water.  
Do not ingest, inhale, or swallow. Seek medical attention immediately.  
Wear appropriate protective clothing such as laboratory overalls, safety glasses and gloves.  
It is strongly advised that this product should be handled by people who have been well trained in  
laboratory techniques and that it is handled with care pursuant to the principles of good laboratory practice.  
All chemicals are deemed potentially harmful.  
The vial is prone to fall over. Use caution, especially when the lid is off.

Lot No. **2761C6a-1**

Clone No. **2761C6a**

Antibody class : **IgG2a**

Immunogen : Recombinant



FOR RESEARCH USE ONLY, NOT FOR USE IN DIAGNOSTIC PROCEDURES.

manufactured by BMR



Catalog No. CBX00559

Mouse monoclonal antibody

Anti-Human POLD1

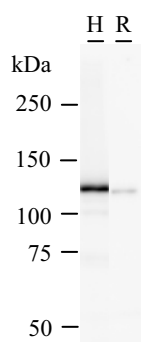
### ■ Background

Possesses two enzymatic activities: DNA synthesis (polymerase) and an exonucleolytic activity that degrades single stranded DNA in the 3'- to 5'-direction. Required with its accessory proteins (proliferating cell nuclear antigen (PCNA) and replication factor C (RFC) or activator 1) for leading strand synthesis. Also involved in completing Okazaki fragments initiated by the DNA polymerase alpha/primase complex. [UniProtKB Function]

### ■ Recommended condition

WB: 0.2-2 µg/ml

### ■ Application



Detection of POLD1 by Western blot.

Samples: Whole cell lysate from human HEK293 (H, 25 µg) and rat F2408 (R, 25 µg) cells. [Lot No. 2761C6a-1]

Predicted molecular weight: 123 kDa