

## Product datasheet for **CF502548**

### **POLR2E Mouse Monoclonal Antibody [Clone ID: OTI3B5]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OTI3B5
<b>Applications:</b>	FC, IF, IHC, WB
<b>Recommended Dilution:</b>	WB 1:500~2000, IHC 1:150, FLOW 1:100, IF: 1:100
<b>Reactivity:</b>	Human, Monkey, Mouse, Rat, Dog
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG2a
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Full length human recombinant protein of human POLR2E(NP_002686) produced in HEK293T cell.
<b>Formulation:</b>	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
<b>Reconstitution Method:</b>	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	24.4 kDa
<b>Gene Name:</b>	Homo sapiens RNA polymerase II, I and III subunit E (POLR2E), transcript variant 1, mRNA.
<b>Database Link:</b>	<a href="#">NP_002686</a> <a href="#">Entrez Gene 66420 Mouse</a> <a href="#">Entrez Gene 690966 Rat</a> <a href="#">Entrez Gene 611859 Dog</a> <a href="#">Entrez Gene 721178 Monkey</a> <a href="#">Entrez Gene 5434 Human</a> <a href="#">P19388</a>



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**Background:**

This gene encodes the fifth largest subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. This subunit is shared by the other two DNA-directed RNA polymerases and is present in two-fold molar excess over the other polymerase subunits. An interaction between this subunit and a hepatitis virus transactivating protein has been demonstrated, suggesting that interaction between transcriptional activators and the polymerase can occur through this subunit. A pseudogene is located on chromosome 11. [provided by RefSeq]

**Synonyms:**

hRPB25; hsRPB5; RPABC1; RPB5; XAP4

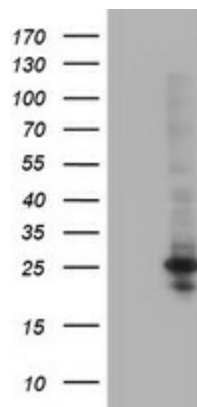
**Protein Families:**

Transcription Factors

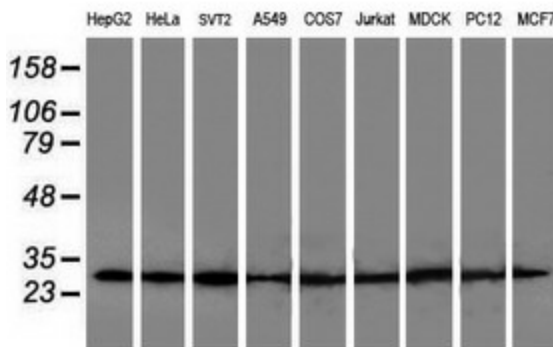
**Protein Pathways:**

Huntington's disease, Metabolic pathways, Purine metabolism, Pyrimidine metabolism, RNA polymerase

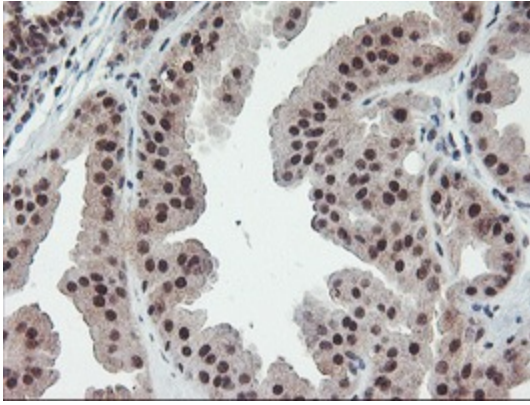
**Product images:**



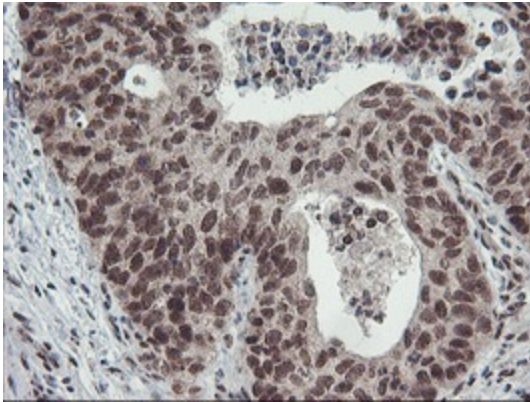
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY POLR2E (Cat# [RC201266], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-POLR2E (Cat# [TA502548]). Positive lysates [LY419161] (100ug) and [LC419161] (20ug) can be purchased separately from OriGene.



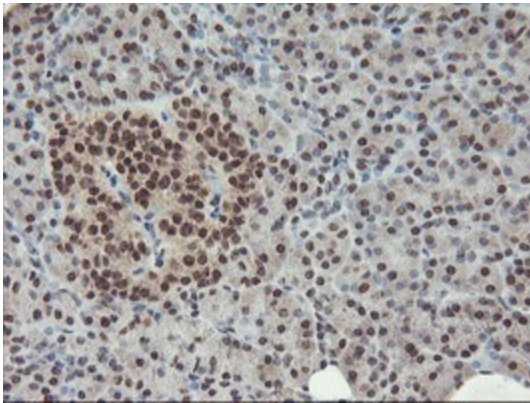
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-POLR2E monoclonal antibody.



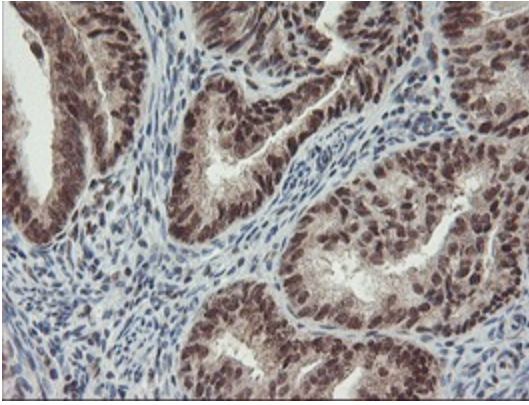
Immunohistochemical staining of paraffin-embedded Human breast tissue within the normal limits using anti-POLR2E mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502548])



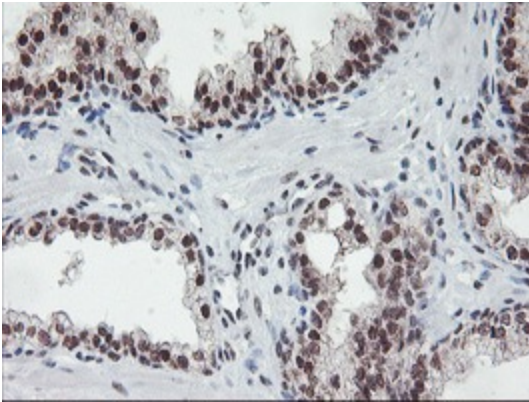
Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-POLR2E mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502548])



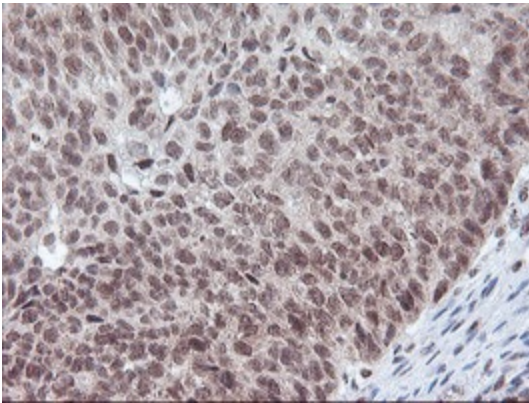
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-POLR2E mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502548])



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-POLR2E mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502548])

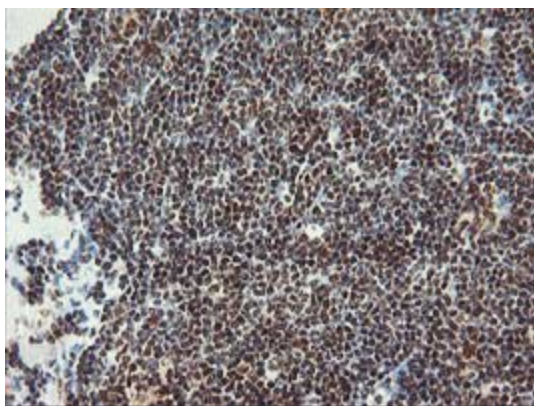


Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-POLR2E mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502548])

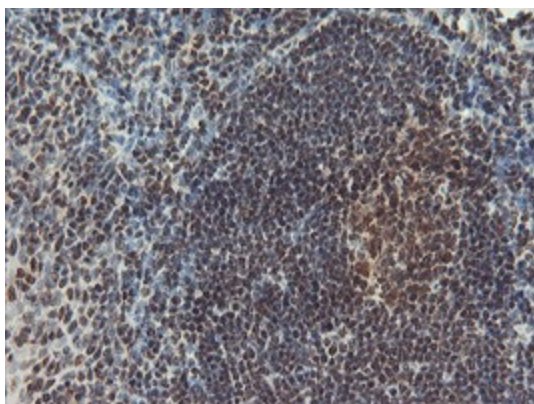


Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-POLR2E mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502548])

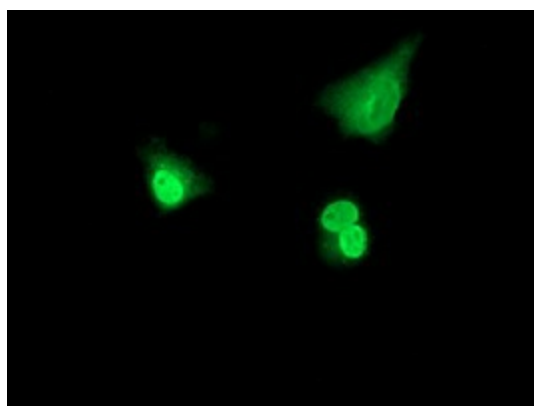




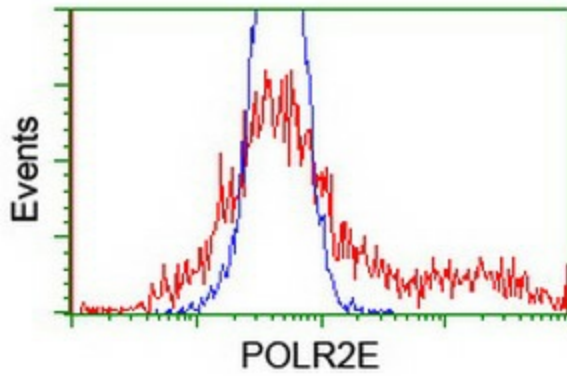
Immunohistochemical staining of paraffin-embedded Human lymphoma tissue using anti-POLR2E mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502548])



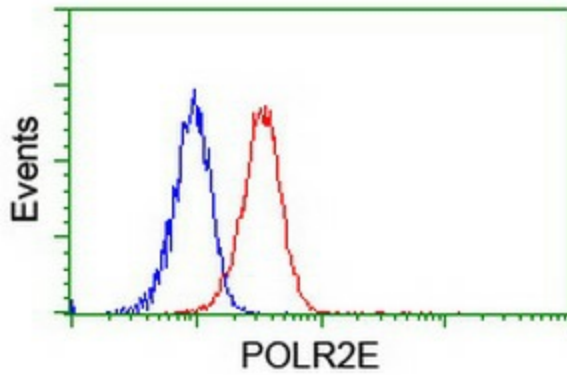
Immunohistochemical staining of paraffin-embedded Human tonsil within the normal limits using anti-POLR2E mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502548])



Anti-POLR2E mouse monoclonal antibody ([TA502548]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY POLR2E ([RC201266]).



HEK293T cells transfected with either [RC201266] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-POLR2E antibody ([TA502548]), and then analyzed by flow cytometry.



Flow cytometric Analysis of Jurkat cells, using anti-POLR2E antibody ([TA502548]), (Red), compared to a nonspecific negative control antibody, (Blue).