

## Product datasheet for **TA306617**

### **POLR3F Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	IF, IHC, WB
<b>Recommended Dilution:</b>	WB: 0.5 - 1 ug/mL, ICC: 2.5 ug/mL, IF: 20 ug/mL
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host:</b>	Rabbit
<b>Isotype:</b>	IgG
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	POLR3F antibody was raised against a 21 amino acid peptide from near the amino terminus of human POLR3F.
<b>Formulation:</b>	PBS containing 0.02% sodium azide.
<b>Concentration:</b>	1ug/ul
<b>Purification:</b>	Affinity chromatography purified via peptide column
<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>Gene Name:</b>	polymerase (RNA) III subunit F
<b>Database Link:</b>	<a href="#">NP_006457</a> <a href="#">Entrez Gene 70408 Mouse</a> <a href="#">Entrez Gene 311487 Rat</a> <a href="#">Entrez Gene 10621 Human</a> <a href="#">Q9H1D9</a>



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**Background:**

The human POLR3F is a component of RNA III polymerase. RNA polymerase III transcribes many essential, small, noncoding RNAs, including the 5S rRNAs and tRNAs. While most pol III-transcribed genes are found scattered throughout the linear chromosome maps or in multiple linear clusters, there is increasing evidence that many of these genes prefer to be spatially clustered, often at or near the nucleolus. This association could create an environment that fosters the coregulation of transcription by pol III with transcription of the large ribosomal RNA repeats by RNA polymerase I (pol I) within the nucleolus. Given the high number of pol III-transcribed genes in all eukaryotic genomes, the spatial organization of these genes is likely to affect a large portion of the other genes in a genome. POLR3F has also been recently identified as an HIV dependency factor (HDF), suggesting that POLR3F may be an important drug target in HIV treatment. At least two isoforms of POLR3F are known to exist.

**Synonyms:**

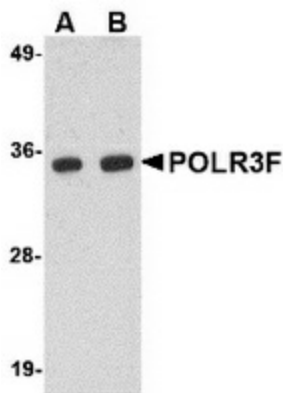
RPC6; RPC39

**Protein Families:**

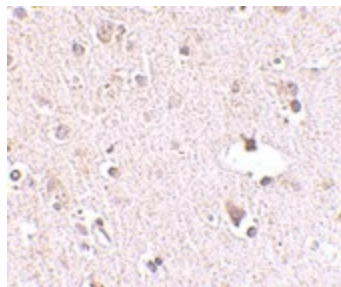
Transcription Factors

**Protein Pathways:**

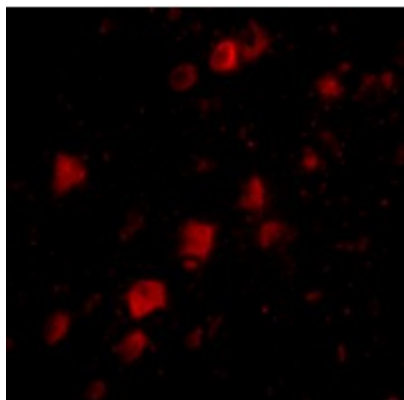
Cytosolic DNA-sensing pathway, Metabolic pathways, Purine metabolism, Pyrimidine metabolism, RNA polymerase

**Product images:**

Western blot analysis of POLR3F in human brain tissue lysate with POLR3F antibody at (A) 0.5 and (B) 1 ug/ml.



Immunohistochemistry of POLR3F in human brain tissue with POLR3F antibody at 2.5 ug/ml.



Immunofluorescence of POLR3F in human brain tissue with POLR3F antibody at 20 ug/mL.